

CNAS L13930 Page 1 of 72

Report No.: OViS202204-002

# **TEST REPORT**

Report Number	OViS202204-002
Date of Issue	May 04, 2022
number of pages	572 Start Start Start Start Start Start
Testing Laboratory	Zhejiang European African Testing&Certification Co., Ltd.
Address	4th Floor, Building 4, No. 888 Donghuan Road,Development Zone,Taizhou City, Zhejiang P.R.China
Testing location/procedure	The same as above
Applicant's Name	Zhejiang Rambo Intelligent Technology Co., Ltd
Address	Daxi Industrial Zone, Daxi Town, Wenling City,Zhejiang Province, P.R.China
Test specification:	
Standard	IEC 60335-2-41:2012 IEC 60335-1:2010+A1:2013+A2:2016
Test procedure	IEC Scheme
Non-standard test method	N/A
Test Report Form No	IEC 60335_2_41
Test Report Form(s) Originator	VDE A A A A
Master TRF	Dated 2019-03
Test item description	SOLAR WATER PUMP
Trade Mark	ST WESCH WESCH WESCH WESCH WESCH WESCH WESCH
Manufacturer	Zhejiang Rambo Intelligent Technology Co., Ltd
Address	Daxi Industrial Zone, Daxi Town, Wenling City,Zhejiang Province, P.R.China
Model/Type reference	1# Z3PC3-35-24-300,2# Z3PC3.5-47-48-400 3# Z3PC3.5-95-72-750,4# Z3PC7.5-62-110-1100 5# Z3PC3.8-180-110-1500 (Cover models see models list)
Ratings	See models list
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FRT OUTS OFFIC This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability indemnification and jurisdictional policies defined therein. This test report includes all of the tests requested by you and the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report includes all of the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report includes all of the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report includes all be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of this report, the tests conducted and the correctness of the report contents. CERT



esting procedure and testing	Page 2 of 72 Report No.:OViS202204-00 location:
☑ Testing Laboratory:	Zhejiang European African Testing&Certification Co., Ltd
esting Location/address	4th Floor, Building 4, No. 888 Donghuan Road, Development Zone,Taizhou City, Zhejiang P.R.China
Associated Laboratory:	1 <sup>55</sup> N/A M <sup>155</sup> M <sup>155</sup> M <sup>155</sup> M <sup>155</sup>
esting Location/address	THE COLOR OF COLOR OF COLOR
Tested by(name+signatu	re): Peniel Xu/ Project Engineer
Approved by(+signature)	Reviewer
Testing procedure:TMP	
Tested by(name+signatu	re): N/A 010 010 010 010 010 010 010 010 010 01
Approved by(+signature)	: N/A
esting Location/address	N/A
Testing procedure:WMT	N/A
Tested by(name+signatu	re): N/A
☐ Witnessed by(+signature	): N/A N <sup>IS</sup> N <sup>IS</sup> N <sup>IS</sup> N <sup>IS</sup>
Approved by(+signature)	: N/A
esting Location/address	N/A ON ON ON ON ON ON
Testing procedure:SMT	N/A CHI IS CHI I
Tested by(name+signatu	re): N/A
Approved by(+signature)	
Supervised by(+signature	e).: N/A
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Testing procedure:RMT	N/A CHI CHI CHI CHI CHI CHI CHI CHI
Tested by(name+signatu	re): N/A
Approved by(+signature)	: N/A <sup>CLI</sup>
Supervised by(+signature	e).: N/A

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

Appendix I – Photo documentation – attachment 16 pages.

### Summary of testing:

# Tests performed (name of test and test

### clause):

The provided samples were tested and found to meet the below standards: IEC 60335-2-41:2012 IEC 60335-1:2010+A1:2013+A2:2016,

Tests of clause7,8,10,11,13,15,16,20,21,22,23, 26,28,29,30,31,32 were performed on ZCPC3.8-180-110-1500,Z3PC3-35-24-300. Tests of clause10,11,13 were performed on Z3PC3.5-47-48-400,Z3PC3.5-95-72-750, Tests of clause10 were performed on Z3PC7.5-62-110-1100

## Summary of compliance with National Differences:/

# Copy of marking plate:

浙江欧非检测认证有限公司(OVIS) Zhejiang European African Testing&Certification Co., Ltd.(OViS)

The artwork below may be only a draft.

SOLAR WATER PUMP MADE		
MODEL:Z3PC3.8-180-110-1500	No:	
Q.max: 3.8m³ /h	H.max :180m	
Voltage: 110V	Output power:1500W	
Current: === 10A	Max. liquid temperature:40%	
Continuous duty	Max. operation depth:100m	
Thermally Protected	I.CL.F IPX8	
Zhejiang Rambo Intelligent Te Daxi Industrial Zone, Daxi Tov Province, P.R.China		

SOLAR WATER PUMP	ADE IN CHINA CE	
MODEL:Z3PC3-35-24-300	No:	
Q.max: 3.0m² /h	H.max :35m	
Voltage: 24V	Output power:300W	
Current: 10A	Max. liquid temperature:40	010
Continuous duty	Max. operation depth:100	m
Thermally Protected	I.CL.F IPX8	ŝ
Zhejiang Rambo Intelligent Daxi Industrial Zone, Daxi Province, P.R.China		g

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> 地址:浙江省台州市开发区东环大道 888 号 4 幢 4 层 Add:4th Floor, Building 4, No. 888 Donghuan Road,Dev

## **Testing location:**

Zhejiang European African Testing&Certification Co., Ltd. 4th Floor, Building 4, No. 888 Donghuan Road, Development Zone,Taizhou City, Zhejiang P.R.China

> w.ovis-lab.com ⊠ info@ovis-lab.com nent Zone, Taizhou City, Zhejiang P.R.China

400-8008-959

DV iS-CERT Test item particulars:	Page 4 of 72	Nis.Ur	Report N	o.:OViS20	2204-002	J.S.
	<u> </u>		<u>رم</u>	0.	0°	0.
Supply connection		Power co	ra <sub>cer</sub> ri			
Nature of supply		a.c.				
Class of protection against electric shock						
Degree of protection against moisture		IPX8				
Type of cord attachment		Y				
Portable appliances						
Fixed appliances						
Built-in appliances		,S``				
Indoor use						
Outdoor use						
Submersible pumps						
Maximum operating depth		100m				
Vertical wet pit pumps		8 <u> </u>				
Sludge pumps		s´`				
Pumps for cleaning and other maintenance swimming pools						
Pumps for outdoor fountains, garden						
ponds and similar places						
Shower-boost pumps						
Table fountain pumps		8 <u> </u>				
Switch		S				
Thermostat						
without an OFF position		8 <u> </u>				
Self-resetting thermal cut-out						
Non-self-resetting thermal cut-out						
Voltage-maintained non-self-resetting therm		8 <u> </u>				
Contact opening > 3 mm in each pole		1.5				
Thermal link						
Electronic circuit		8){}				
with software class		No				
Protective electronic circuit		$\square$				
with software class		Yes				
Programmer, timer, switching devices		1,5				
Remote operation	<u> </u>	Ľ,				
Appliances - with supply cord						
- with supply cord fitted with a plu	10 10	1.5				
Motor with capacitor in auxiliary winding		$\square$				
Series motors incorporated		80 08				
Three-phase motor	in the second	1,5				
with protective device		j D'				
Used in vehicles or on board ships or aircraft		sin sa				
additional requirements may be necessary Additional requirements are specified by	NIS NIS	N'IS'				
the national health authorities						
the national authorities responsible for the	protection	Sin ch				
of laboursimilar authorities		LN'ST				
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DV iS-CERT		Page 5 of	72	Report No.:C	0ViS202204
	est case verdicts:	0412 0	110 0410	0, 0	n. 0.,
	does not apply to the test				
110	t does meet the requirement		110		
L L	t does not meet the requir	rement	: F(ail)	0 0	× 0"
Summary	y of testing:				
Date of rec	eipt of test item	Apr. 07,	2022		
Date(s) of <sub>I</sub>	performance of test	: Apr. 07,	, 2022 to Apr. 24,	2022	
Sample ap	pearance and function are	e in Kres K			
normal con	dition, yes or no				
Ambient te	mperature	: 20-25°C	SST SST		
Ambient h	umidity	: 55-65%	× 63 ×		
	sults presented in this repor	ý ý		CER'	- AR
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Throughout The sample The test iter	t this report a 🗌 comma / es under test are in good co	point is used ondition. ments of the star	d as the decimal s ndard.	OVISION OF	its out
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110V

110V

48V

72V

72V

Z3PC3.8-155-110-1300

Z3PC3.8-180-110-1500

Z3PC5.2-45-48-500

Z3PC5.2-50-72-600

Z3PC5.2-75-72-750

浙江欧非检测认证有限公司(OViS) Zhejiang European African Testing&Certification Co., Ltd.(OViS) 3.8m<sup>3</sup>/h

3.8m³/h

5.2m<sup>3</sup>/h

5.2m³/h

5.2m³/h

1300W

1500W

500W

600W

750W

400-8008-959

155m

180m

45m

50m

75m

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Z3PC6-84-110-1100	0110V	1100W	6.0m³/h	84m
Z3PC6-125-110-1500	110V	1500W	6.0m³/h	125m
Z3PC7.5-45-72-750	72V	750W	7.5m³/h	45m
Z3PC7.5-62-110-1100	110V	1100W	7.5m³/h	62m
Z3PC7.5-78-110-1500	110V	1500W	7.5m³/h	78m
Z4PC6-32-48-400	48V	400W	6.0m³/h	32m
Z4PC6-42-72-600	72V	600W	6.0m³/h	42m
Z4PC6-56-96-750	72V	750W	6.0m³/h	56m
Z4PC6-84-110-1100	110V	1100W	6.0m³/h	84m
Z4PC6-112-110-1300	110V	1300W	6.0m³/h	112m
Z4PC6-135-110-1500	110V	1500W	6.0m³/h	135m
Z4PC9-45-96-750	110V	750W	9.0m³/h	45m
Z4PC9-58-110-1100	110V	1100W	9.0m³/h	58m
Z4PC9-71-110-1300	110V	1300W	9.0m³/h	71m
Z4PC9-85-110-1500	110V	1500W	9.0m³/h	85m
Z4PC13-36-96-750	110V	750W	13m³/h	36m
Z4PC13-49-110-1100	110V	1100W	13m³/h	49m
Z4PC13-54-110-1300	110V	1300W	13m³/h	54m
Z4PC13-60-110-1500	110V	1500W	13m³/h	60m
Z4PC17-48-110-1500	110V	1500W	17m³/h	48m
Z3SC4-35-24-300	24V	300W	4.0m³/h	35m
Z3SC4-50-48-400	48V	400W	4.0m³/h	50m
Z3SC4-80-72-600	72V	600W	4.0m³/h	80m
Z3SC4.8-95-96-750	72V	750W	4.8m³/h	95m
Z3SC4.8-112-110-1100	110V	1100W	4.8m³/h	112m
23SC4.8-135-110-1500	110V	1500W	4.8m³/h	135m
Z4SC5.2-45-48-500	48V	500W	5.2m³/h	45m
Z4SC5.2-67-96-750	72V	750W	5.2m³/h	67m
24SC5.2-101-110-1100	110V	1100W	5.2m³/h	101m
24SC5.2-146-110-1300	110V	1300W	5.2m³/h	146m
Z4SC5.2-198-110-1500	110V	1500W	5.2m³/h	198m
Z4SC7.5-80-110-1300	110V	1300W	7.5m³/h	80m
24SC7.5-100-110-1500	110V	1500W	7.5m³/h	100m
Z4SC11-60-110-1500	110V	1500W	11m³/h	60m
Z4SC19-35-110-1500	110V	1500W	19m³/h	35m
Z4SC25-26-110-1500	110V	1500W	25m³/h	26m
		100000		

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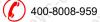


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OV iS-CER		Report No.: OViS202204-	002
0	IEC 60335-2-41+IEC 6033	-	) (a wall of
Clause	Requirement + Test	Result - Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS		~
<b>b</b>		Cr Cr Cr	ERT.
NIS	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.	ovies ovies ovi	P
5.7 JIS CERT	Temperature of liquid maintained between 0 °C and -5 °C of temperature marked on pump (IEC 60335-2-41)	Max. water temperature 40°C	SHRIP NI
5.10	Add the following as a new second paragraph:		~
	A class III construction part of the appliance is	stin stin stin	Str
	tested connected to its detachable power supply	N.S. Will Mil	N/A
	part taking into account the instructions provided		á
Str	with the appliance( IEC 60335-1:2010/A2:2016)	sthingthingthing	SIT
5.101	Pumps tested as portable appliances, unless (IEC 60335-2-41)	onis onis on	N/A
CER'	they are fixed appliances (IEC 60335-2-41)	AR AR AR	P
5.102	Stationary pumps having a three-phase motor that does not incorporate a protective device are installed with an appropriate device, in accordance with instructions (IEC 60335-2-41)	SERIE SERIE SERIES	N/A
6	CLASSIFICATION		
6.1	Protection against electric shock: Class 0, 0I, I, II, III:	Class I	<b>SHRP</b>
WISCERT C	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part.	SERIE SCHRIT SCHRIT	N/A
MIS-CERT	Add the following to the requirement as a new second paragraph: If an appliance consists of a part of class III construction and a detachable power supply part, the complete appliance is classified as a class I appliance or class II appliance in accordance with the classification applicable to its detachable power	CERT ONIS CERT ONIS CERT ON	N/A
WiS-CERT	supply part.( IEC 60335-1:2010/A2:2016) Submersible pumps for use in swimming pools when persons in the pool be of class III with a rated voltage < 12 V (IEC 60335-2-41)	SCHAT WIS-CHAT WIS-CHAT WIS	N/A
VIS-CERT	Other submersible pumps for use in water and other conducting liquids are class I or class III. However (IEC 60335-2-41)	CERT WISCHRY WISCHRY	N/A
,,,,,,,,	aquarium pumps may be class II (IEC 60335-2-41)		N/A
WiS-CERN (	Table fountain pumps for indoor use are class II as long as their rated power input $\leq 25$ W (IEC 60335-2-41)	CERT WISCER WISCER	N/A

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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
S. (	2. 0. 0. 0. 0. 0.	0, 0, 0,	0
15-CERT	Portable pumps for cleaning and other maintenance of swimming pools are class I or class III (IEC 60335-2-41)	CERT WISCERT WISCERT	N/A
	Other pumps are class I, class II or class III (IEC 60335-2-41)	effit efft efft	<b>P</b>
.2	Submersible pumps are IPX8 (IEC 60335-2-41)	IPX8	P
CERT	Portable pumps for cleaning and other maintenance of swimming pools at least IP X7 (IEC 60335-2-41)		N/A
S. SERI	Shower-boost pumps intended for installation outside of zones 1 and 2, as specified in IEC 60364-7-701, be at least IPX2 (IEC 60335-2-41)	CERT SCORPT OVISION ON	N/A
	Other pumps are at least IPX4 (IEC 60335-2-41)	01. 01. 01	N/A
A.	Protection against harmful ingress of water	ART ART ART	P
	MARKING AND INSTRUCTIONS		· - · ·
1 _ `	Rated voltage or voltage range (V)	See models list	P
CERT	Symbol for nature of supply, or		St P
о (	Rated frequency (Hz)	ON'S ON'S ON	N/A
A.	Rated power input (W), or	a a a	N/A
, CV	Rated current (A)	10A	g <sup>ST</sup> P
and a	Manufacturer's or responsible vendor's name, trademark or identification mark	See copy of nameplate	P
SiGU	Model or type reference	1# Z3PC3-35-24-300, 5# Z3PC3.8-180-110-1500	S P
à	Symbol IEC 60417-5172, for class II appliances		N/A
,00	IP number, other than IPX0	IPX8	C P
and a	Symbol IEC 60417-5180, for class III appliances, unless	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A
500	the appliance is operated by batteries only,or		N/A
1 AL	for appliances powered by rechargeable batteries recharged in the appliance		N/A
5500	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth (IEC 60335-1:2010/A1:2013)	out out of the out	N/A
5-CERT	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	CERT ONIS CERT ONIS CERT ON	N/A

OVIS-OFFIT 115-CERT This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability indemnification and jurisdictional policies defined therein. This test report includes all of the tests requested by you and the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report to notify us of any error or omission caused by our negligence. Provided however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. 400-8008-959

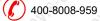




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Report No.:	OViS202	2204-002	OVIS

OV iS-CER	Page 9 of 72	Report No.: OViS20220	4-002
	IEC 60335-2-41+IEC 6033	35-1	
Clause	Requirement + Test	Result - Remark	Verdict
2. 0	$\mathcal{D}_{\mathcal{D}}_{\mathcal{D}}}}}}}}}}$	0, 0, 0	2. 0,
VIS-CERT	Replace the last dashed item in the first paragraph by the following: – symbol IEC 60417-5180 (2003-02), for class III	SCEPT OVISCEPT OVISCEPT	WIS CERT OUT
	appliances. This marking is not necessary for appliances operated only by batteries (primary batteries or secondary batteries recharged outside	S-OFFIT ITS-OFFIT ITS-OFFIT	N/A
1.5-OFRI	of the appliance) or appliances powered by rechargeable batteries recharged in the appliance.( IEC 60335-1:2010/A2:2016)	CERT WESCERT WESCERT	NY ON
	Pumps with rated power input exceeding 50 W market	ed with (IEC 60335-2-41):	<u> </u>
is ctra	- minimum total head in meters (m), if > 0 m (IEC 60335-2-41)	SER. MERCH. MECH.	N/A
C. SERI	- maximum operating depth in metres (m), with a minimum of 1 m (for submersible pumps) (IEC 60335-2-41)	100m	SERP
Nº di	- direction of rotation (three-phase motor only) (IEC 60335-2-41)	othe othe of	N/A
IS OFF	Pumps marked with maximum liquid temperature (°C) which not less than 35 °C (IEC 60335-2-41)	40°C	NIS CE P IS
.S.CERT	If temperature exceeds 35 °C, they marked with maximum period of operation, unless (IEC 60335-2-41)	SCEPT USCEPT USCEPT	N/A
	they intended for continuous operation (IEC 60335-2-41)	in in in	P
.2	Warning for stationary appliances for multiple supply	Stor ovision ovision	N/A
A	Warning placed in vicinity of terminal cover	A A A	N/A
.3	Range of rated values marked with the lower and upper limits separated by a hyphen	on one one	NIE P NI
CERT	Different rated values marked with the values separated by an oblique stroke	CHAT CHAT COHAT	N/A
.4 ceffi	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible.	CHAIL CHAIL CHAIL	N/A
C.CERT	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram.	CHAT CERT CERT	N/A
V.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	OTTO OTTO OTTO O	N/A
N. (	the power input is related to the arithmetic mean value of the rated voltage range		PON

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0V iS-CERT Page 10 of 72 Report No.: OViS202204-002				
IEC 60335-2-41+IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict	
5		0, 0, 0,	0	
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	CERT WISCERT WISCERT	N/A	
7.6	Correct symbols used (IEC 60335-2-41)		Р	
SCHIT	Symbol for nature of supply placed next to rated voltage	SET MESCET MESCET	N/A	
CERT	Symbol for class II appliances placed unlikely to be confused with other marking		N/A	
1 <sup>15</sup>	Units of physical quantities and their symbols according to international standardized system	ovis ovis ov	P	
7.7 CERT	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	OFFICE OVISOFICE OVISOFICE OVIS	N/A	
(A)	correct mode of connection is obvious	A A A	N/A	
7.8	Except for type Z attachment, terminals for connection as follows:	on to the supply mains indicate	± ~ ~ ~	
CERT	- marking of terminals exclusively for the neutral conductor (letter N)	SERIE SERIE SERIE	N/A	
VIII .	- marking of protective earthing terminals (symbol IEC 60417-5019)	ovin ovin ovin	Р	
115 OFT	- marking of functional earthing terminals (symbol IEC 60417-5018)	SET WEST WEST	N/A	
Á	- marking not placed on removable parts		Р	
.9	Marking or placing of switches which may cause a hazard	office and a start a start and a start	N/A	
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	offit south south	N/A	
A. A.	This applies also to switches which are part of a control	1. 61. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A	
VISCE	If figures are used, the off position indicated by the figure 0	OL OVIS OU OVIS OU	N/A	
CERT	The figure 0 indicates only OFF position, unless no confusion with the OFF position	SERT SERT SERT	N/A	
7.11	Indication for direction of adjustment of controls	ONIN ON ON	N/A	
.12	Instructions for safe use provided		P	
SÍ (	Details concerning precautions during user maintenance	St OVIS OVIS OVIS	P P	
R	The instructions state that:	A A A	1	
VIS-CERT	- 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	CERT CERT CERT ON	P	

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DV iS-CERT         Page 11 of 72         Report No.: OViS202204-002           IEC 60335-2-41+IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict	
s. C	$2$ $0_{1}$ $0_{2}$ $0_{2}$ $0_{2}$ $0_{2}$ $0_{3}$	0, 0, 0,	07.	
C. CERT	- children being supervised not to play with the appliance	SHALL SHAL SHALL SHALL SHAL	<b>KIP</b>	
	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	CERT ISCERT ISCERT	N/A	
	Instructions for class III appliances state that it must only be supplied at SELV, unless	\$ \$ 0° 0°	N/A	
is of	it is a battery-operated appliance, the battery being charged outside the appliance	St St St St	N/A	
is CERT	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated: (IEC 60335-1:2010/A1:2013)	SERT WISCERT WISCERT W	N/A	
its-CERT	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only (IEC 60335-1:2010/A1:2013)	CERT NISCERT NISCERT	N/A	
CERT	Instructions for use of class I portable pumps for clear swimming pools include substance of following (IEC 6		SER	
ins c	- the pump must not be used when people are staying in the water (IEC 60335-2-41);		N/A	
it <sup>s-cER</sup> c	- the pump must supplied through a residual current device (RCD) with a rated residual operating current ≤ 30 mA (IEC 60335-2-41)	CER OVISCER OVISCER	N/A	
is-CERT C	The instructions for use for pumps marked with a temperature exceeding 35 °C state maximum period of operation and minimum rest period, unless (IEC 60335-2-41)	CERT OVIS-CERT OVIS-CERT OV	N/A	
	pump is intended for continuous operation at this temperature (IEC 60335-2-41)	CHR SCHR SCHR	SUP P	
CR1	The instructions for submersible pumps for use in swin of the following (IEC 60335-2-41):	nming pools state the substance		
is or	Disconnect the pump from the supply mains before carrying out user maintenance such as cleaning the filter. (IEC 60335-2-41)	out outside outside out	N/A	
.12.1	Sufficient details for installation supplied		S <sup>CT</sup> P	
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	CHEFT CHEFT CHEFT	N/A	
is CERT	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance (IEC 60335-1:2010/A1:2013)	CERT CERT OUTS OUTS	N/A	
C CERT	Installation instruction provide information on requirements specified for electrical installation and include reference to national wiring rules (IEC 60335-2-41)	CERT CERT ONE ON	CHIP	

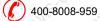




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VIS-CERT	Page 12 of 72	Report No.: OViS20220	4-002
IEC 60335-2-41+IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
2. 0		0, 0, 0,	04
CERT	If reference made to zones, corresponding be included (IEC 60335-2-41)	CHAIN CHAIN COLLARS	N/A
12 O	Installation instructions state substance of following (II	EC 60335-2-41):	· - 0 <sup>11</sup>
SCHRI	- the maximum total head, in meters (for pumps with rated power input > 50 W) (IEC 60335-2-41);	1# 35m 5# 180m	CHIP .
ST O	- pollution of the liquid could occur due to leakage of lubricants (for submersible pumps and vertical wet pit pumps containing lubricants) (IEC 60335-2-41)	SERIE SERIE SERIE	CER <sup>P</sup>
S. CERT OF	- additional information for installation of stationary pump having a three-phase motor not incorporating a protective device as specified (IEC 60335-2-41)	CERT OUTS OUTS OUT	N/A
IS-CERT	Instructions for installation state that pumps for outdoor fountains, garden ponds and similar places have to be supplied through a RCD (operating current $\leq$ 30 mA) (IEC 60335-2-41)	OUT OUT OUT OUT	N/A
VIS-CERT O	Installation instructions for class I pumps for swimming pools shall state that the pump is to be supplied by an isolating transformer or supplied through a RCD (operating current $\leq$ 30 mA) (IEC 60335-2-41)	SCHAT ON SCHAT ON SCHAT ON	N/A
VIS-CERI O	Installation instructions for class III pumps intended to be installed in zone 0 of a swimming pool, as defined in IEC 60364-7-702, state that the transformer is located outside zone 1 (IEC 60335-2-41)	SERIO OVIS-CERIO OVIS-CERIO OVI	N/A
	Installation instructions for class II pumps intended to be fixed in zone 1 of a swimming pool, as defined in IEC 60364-7-702, or fixed close to a garden pond or similar place, state that the pump is to be located where flooding cannot occur (IEC 60335-2-41)	CERT WISCH WISCHRIT	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	CERT ON CERT ON SCHRIT ON	N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected	SHAL SHAL SHAL	N/A
7.12.4	Instructions for built-in appliances:	S Wish Wish Wi	5 - 3
~	- dimensions of space		N/A
CER.	- dimensions and position of supporting and fixing	set set	N/A
12 O	- minimum distances between parts and surrounding structure	ONE ONE ON	N/A

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	OV iS-CERT         Page 13 of 72         Report No.: OViS202204-002           IEC 60335-2-41+IEC 60335-1         IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
Clause		Result - Remark	Verdici	
CERT	- minimum dimensions of ventilating openings and arrangement	Station Station	N/A	
NIS ON	- connection to supply mains and interconnection of separate components		N/A	
Wis CER ON	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	SET OVIS-SET OVIS-SET OVIS	N/A	
CER	a switch complying with 24.3		N/A	
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	0 <sup>415</sup> 0 <sup>415</sup> 0 <sup>41</sup>	N/A	
CER'	Replacement cord instructions, type Y attachment	AP AP AP	. ⟨P	
Jis all	Replacement cord instructions, type Z attachment	NIS NIS NIS	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	OFFICE ONIS CERT OVIS	N/A	
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	SERIE SCERIE SCERE	<b>SHAP</b>	
7.12.8	Instructions for appliances connected to the water m	ains:		
A	- max. inlet water pressure (Pa)		N/A	
.S	- min. inlet water pressure, if necessary (Pa)		N/A	
St. CERT OF	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	CERT CERT CERT	N/A	
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance	AND OND OND ON	P	
JUS CE ON	These instructions may be supplied with the appliance separately from any functional use booklet	Chi Chi Chi Chi	N/A	
NIS OF	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	in all the all	P	
VIS-CERT	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	SERIE WISSERIE WISSERIE WISSERIE	Still P	
7.13	Instructions and other texts in an official language	English	Р	
7.14	Marking clearly legible and durable, rubbing test as specified	SER MISSER MISSER	SER P	
- this	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified		N/A	
5.47	Uppercase letter of the text explaining the signal		10	

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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
VIS-CERT	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless	CERT ON ON ON	N/A
, , , , , , , , , , , , , , , , , , ,	contrasting colours are used		Р
VIS-CERT	Markings checked by inspection, measurement and rubbing test as specified	SER. MISCER MISCER.	CET P
7.15	Markings on a main part		Р
VIS-CETT	Marking clearly discernible from the outside, if necessary after removal of a cover	State March March	C <sup>ET</sup> P
, citri	For portable appliances, cover can be removed or opened without a tool	CHT CHT CHT	N/A
VIS O	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	S OVIS OVIS OVI	N/A
VIS-CL O	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	SCH ONESCH ONESCH ONE	N/A
VIS-CEIN O	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	SET OUS CET OUS CET OU	CHT P V
VIS-CE. O	Symbol IEC 60417-5018 is placed next to the symbol IEC 60417-5172 or IEC 60417-5180 (IEC 60335-1:2010/A1:2013)	out outs of outs of outs	N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	CERT ONIS CERT ONIS CERT ON	N/A
3	PROTECTION AGAINST ACCESS TO LIVE PARTS	;	- R
3.1	Adequate protection against accidental contact with live parts	ovision ovision ovi	P
8.1.1	Requirement applies for all positions, detachable parts removed	Steff	SHP
an o	Lamps behind a detachable cover not removed, if conditions met	at at at	N/A
115-CE	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	SC WESCE WESCE	N/A
SERI	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	Start Start Start	<b>CLERP</b>
(i <sup>2</sup> ) (i	Use of test probe B of IEC 61032 through openings, with a force of 20 N: no contact with live parts		РО
3.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts	OFFICIAL OVIS-OFFICIAL OVIS	P of

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### Report No.: OViS202204-002

OV iS-CERT	Page 15 of 72	Report No.: OViS20220	4-002
	IEC 60335-2-41+IEC 6033	0. 0 0	0
Clause	Requirement + Test	Result - Remark	Verdict
s. C		0, 0, 0,	0
WiS-CERT	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	SERIE OFFICE OFFICE OFFICE	IS SHEEP
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements	CERT ONSCERT ONSCERT ON	N/A
8.1.4	Accessible part not considered live if:	AL AL AL	.A.
NIS CT	- safety extra-low a.c. voltage: peak value not exceeding 42,4 V	of office office of	N/A
-R	- safety extra-low d.c. voltage: not exceeding 42,4 V	A A A	N/A
NIS C	- or separated from live parts by protective impedance	ovision ovision of	N/A
C.CERT	If protective impedance: d.c. current not exceeding 2 mA, and	SERI SCHI SCHI	N/A
dis c	a.c. peak value not exceeding 0,7 mA	0112 0112 01	N/A
S. SERT	- for peak values over 42,4 V up to and including 450 V, capacitance not exceeding 0,1 $\mu\text{F}$	CERT SCERT SCERT	N/A
Nr of	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 $\mu C$	at at at	N/A
VIS-CEN C	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	SCE NECE NECE	N/A
8.1.5	Live parts protected at least by basic insulation befor	e installation or assembly:	
	- built- in appliances		N/A
24. C	- fixed appliances	0, 0, 0,	PO
- CAR	- appliances delivered in separate units		N/A
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only	CERT MISCERT MISCERT	CHRP ON
aller o	Only possible to touch parts separated from live parts by double or reinforced insulation	alter alter alter	P
9	STARTING OF MOTOR-OPERATED APPLIANCES		· - · ·
. der	Requirements and tests are specified in part 2 when necessary		N/A
10	POWER INPUT AND CURRENT		- 1

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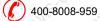




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DV iS-CER	Page 16 of 72	Report No.: OViS202204	-002
NIO CLI	IEC 60335-2-41+IEC 6033	<b>0</b>	-002 01
Clause	Requirement + Test	Result - Remark	Verdict
<u>,</u>	$\overline{a}$ $\overline{a}$ $\overline{a}$ $\overline{a}$ $\overline{a}$ $\overline{a}$ $\overline{a}$ $\overline{a}$	0, 0, 0,	07
VIS-GERT	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period.	CERT OUTSCERT OUTSCERT OUTS	N/A
- LEA	Otherwise the power input is the arithmetic mean value		N/A
VIST R	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	AL AL AL AL	N/A
VISIOL.	the rated power input is related to the arithmetic mean value	Ct WE Ct WE Ct	N/A
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	SHI P
VIS-OFFI	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period.	CERT ONSCHRIT OUIS-CERT OUIS	N/A
13	Otherwise the current is the arithmetic mean value.	ONIS ONIS ON	Po
is CHAI	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	CERT WIS-CERT WIS-CERT WIS	N/A
CERT	the rated current is related to the arithmetic mean value of the range		N/A
1	HEATING		
1.1	No excessive temperatures in normal use		P
11.2	The appliance is held, placed or fixed in position as described	Set Misset Misset	CE P
11.3	Temperature rises, other than of windings, determined by thermocouples		STR P
115	Temperature rises of windings determined by resistance method, unless	ovies ovies ovie	РОЙ
115-CERT	the windings are non- uniform or it is difficult to make the necessary connections		N/A
11.4	Heating appliances operated under normal operation at 1,15 times rated power input (W)		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0,94 and 1,06 times rated voltage (V)	Not official official official	P

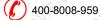
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OV iS-CERT	Page 17 of 72	Report No.: OViS20220	4-002
	IEC 60335-2-41+IEC 6033	35-1	
Clause	Requirement + Test	Result - Remark	Verdict
2° C	13 <u>0</u> 0. 0. 0. 0.	0, 0, 0,	07
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0,94 and 1,06 times rated voltage (V)	SCERT ONIS CERT ONIS CERT ON	N/A
11.7	Pumps operated with liquid maintained at temperature marked on pump (IEC 60335-2-41)	40°C	CHEP
NIS C	They operated until steady conditions established unless (IEC 60335-2-41)	OVIS OVIS OV	PON
WiS-CERI	they marked with a maximum period of operation. In this case, they operated for marked period followed by the rest period specified in instructions, test carried out for three cycles of operation (IEC 60335-2-41)	CERT OVIS-CERT OVIS-CERT OV	N/A
N <sup>iST</sup> of	Shower-boost pumps also supplied with cold water operated with cold water at 15 °C $\pm$ 2 °C (IEC 60335-2-41)	of at at at	N/A
WIS-CERT	Pumps, other than shower-boost pumps, marked with a maximum period of operation are also operated with liquid maintained at 35 °C until steady conditions established (IEC 60335-2-41)	OF ONSOF ONSOF ON	N/A)
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	P
.S. CERT	If the temperature rise of a motor winding exceeds the value of table 3, or	SCHAT SCHAT	N/A
N. C	if there is doubt with regard to classification of insulation,		N/A
SCH	tests of annex C are carried out		N/A
2000	Sealing compound does not flow out	0 <sup>11</sup> 0 <sup>11</sup> 0 <sup>1</sup>	PON
R	Protective devices do not operate, except	the the the	P
N'ISTON (	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	ovision ovision ovi	N/A
WiS-CERT	Pumps marked with liquid temperature > 35 °C, temperature rise of external enclosure not measured (IEC 60335-2-41)	CERT WISCERT WISCERT W	IS OFFICE P
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE		SHR-
13.1	Leakage current not excessive and electric strength adequate	OVIS OVIS OV	PO
VIS GER	Heating appliances operated at 1,15 times the rated power input (W)	CIPIT NISCHAN NISCHAN	N/A
ST CERT	Motor-operated appliances and combined appliances supplied at 1,06 times the rated voltage (V)	CHAT SCHAT	CHEP
in the	Protective impedance and radio interference filters disconnected before carrying out the tests	0 <sup>11</sup> 0 <sup>11</sup> 0 <sup>11</sup>	N/A

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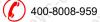




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DV iS-CERT	Page 18 of 72	Report No.: OViS202204	-002
	IEC 60335-2-41+IEC 6033	5-1	0
Clause	Requirement + Test	Result - Remark	Verdict
5° C		0, 0, 0,	0
13.2	For class 0, class II and class III appliances, and class II constructions, leakage current measured by means of the circuit described in figure 4 of IEC 60990	OFFRI OVIS-OFFRI OVIS-OFFRI OVIS	N/A
.S. CERT	For class 0I and class I appliances, a low impedance ammeter may be used	Class I appliances	SH P
· · · · ·	Leakage current measurements	(see appended table)	P
13.3	The appliance is disconnected from the supply		. €P
15	Electric strength tests according to table 4	(see appended table)	P
á	No breakdown during the tests		P
14	TRANSIENT OVERVOLTAGES		, c <sup>(1)</sup> -
an d	Appliances withstand the transient over-voltages to which they may be subjected		N/A
Vis-CET C	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6	(see appended table)	N/A
CERI	No flashover during the test, unless	CER CER	N/A
5	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited	OVIES OVIES OVIE	N/A
15	MOISTURE RESISTANCE		CIR-
5.1	Enclosure provides the degree of moisture protection according to classification of the appliance		PON
i <sup>15</sup>	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	outer outer outer	PO
i <sup>s,cti</sup>	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29	othe outsold outsold outs	P N
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529	IPX8	S <sup>ER</sup> P
S CERT	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	Stating Stating Stating	N/A
CERT C	Shower-boost pumps subjected to appropriate test of IEC 60529 both at rest and in operation while supplied at rated voltage (IEC 60335-2-41)	Steel Steel Steel On	N/A
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	ovie ovie ovi	N/A
:S-CERI	Built-in appliances installed according to the instructions	en Alloci, Allocit, Allo	N/A
	Appliances placed or used on the floor or table placed on a horizontal unperforated support	51 51 51 51 51	P

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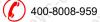
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#### Report No.: OViS202204-002

	IEC 60335-2-41+IEC 6033	35-1	
Clause	Requirement + Test	Result - Remark	Verdict
2. 0		0, 0, 0,	07.
WIS-CERT	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	S.GERT WIS-GERT WIS-GERT WIS	N/A
S.CERT	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	CERT SCENT SCENT	N/A
Su. CERT	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	China	N/A
NIS CERT	for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube		N/A
Sa. C	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A
Wis-CC C	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and	SCEL ONE CEL ONE ONE	N/A
Wish	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	ovision ovision ovi	N/A
NIS.CE	Appliances with type X attachment fitted with a flexible cord as described	SCE WERE WERE	N/A
CERT	Detachable parts subjected to the relevant treatment with the main part	Star Star Star	SERP
Win LAI	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed		POW
	IPX4 pumps tested as specified (IEC 60335-2-41)		N/A
-4F-	Submersible pumps immersed for 24 h in water as specified (IEC 60335-2-41)	and and and	P
1.5	Water pressure on enclosure (IEC 60335-2-41):		
5° (	- 1,5 times pressure occurring at maximum operation depth, when this depth ≤ 10 m (IEC 60335-2-41)		N/A
Wision (	- 1,3 times pressure occurring at maximum operating depth, or (IEC 60335-2-41)	ovision ovision ovis	N/A
J.S.	- 15 m, if higher (IEC 60335-2-41)	alt alt alt	N/A
15.2	Spillage of liquid does not affect the electrical insulation	OVIST OVIST OVIST	N/A
NIS-CERT	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent (IEC 60335-1:2010/A1:2013)	SCEPT WISCEPT WISCEPT WI	N/A
CERT	Appliances with type X attachment fitted with a flexible cord as described	eff eff eff	N/A
C. ~			2 C

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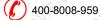




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0V iS-CERT Page 20 of 72 Report No.: OViS202204-002			
	IEC 60335-2-41+IEC 6033	1	
Clause	Requirement + Test	Result - Remark	Verdict
VIS-CERT	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	CERT WISCHRI	N/A
	Detachable parts are removed		N/A
115-OFR	Overfilling test with additional amount of water, over a period of 1 min (I)	Str. Missoft	N/A
CERT	The appliance withstands the electric strength test of 16.3		N/A
inst and	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29	NIST OVIST O	N/A
15.3	Appliances proof against humid conditions		P
a de la	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		N/A
VIS-CL	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		N/A
R	Humidity test for 48 h in a humidity cabinet	As As As	N/A
	Reassembly of those parts that may have been removed	St. Wis outs of	N/A
1 AN	The appliance withstands the tests of clause 16	A A A	N/A
S.CC.	Humidity test for 48 h in a humidity cabinet (not for submersible pumps) (IEC 60335-2-41)	Submersible pumps	N/A
6	LEAKAGE CURRENT AND ELECTRIC STRENGT	ł	CR <sup>1</sup>
6.1	Leakage current not excessive and electric strength adequate	ovision ovision of	N <sup>19</sup> P
CUERI	Protective impedance disconnected from live parts before carrying out the tests	STRI LOTRI LOTRI	N/A
Sin at	Tests carried out at room temperature and not connected to the supply	othe other of	PO
16.2	Single-phase appliances: test voltage 1,06 times rated voltage (V)	ofthe wiscon wiscon	NIP P
CERT	Three-phase appliances: test voltage 1,06 times rated voltage divided by $\sqrt{3}$ (V)	STAT STAT STAT	N/A
is .	Leakage current measurements	(see appended table)	Nº P
ja.	Limit values doubled if:		
Sich	- all controls have an off position in all poles, or	of a start	N/A
in in	- the appliance has no control other than a thermal cut-out, or	a in the the	N/A
VIS-OFF	-all thermostats, temperature limiters and energy regulators do not have an off position, or	CET WE CET WE CET	N/A
à	- the appliance has radio interference filters		N/A

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0V iS-CERT Page 21 of 72 Report No.: OViS202204-002				
IEC 60335-2-41+IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict	
2. 0		01. 01. 01.	0	
S. SERT	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	(see appended table)	N/A	
16.3	Electric strength tests according to table 7	(see appended table)	P	
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	(see appended table)	CERT P	
)	No breakdown during the tests		Р	
17	OVERLOAD PROTECTION OF TRANSFORMERS	AND ASSOCIATED CIRCUITS	, ctri	
SUL CERT	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	N/A	
Wi <sup>S</sup> CRI	Appliance supplied with 1,06 or 0,94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V)		N/A	
.5	Basic insulation is not short-circuited		N/A	
VIS-CERT OF	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K	or or or or	N/A	
c.ERI	Temperature of the winding not exceeding the value specified in table 8		N/A	
	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	ERI CRI CRI CRI	N/A	
18	ENDURANCE		<u>,</u>	
0 	Requirements and tests are specified in part 2 when necessary		N/A	
19	ABNORMAL OPERATION		<u> </u>	
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	Station of the state of the sta	N/A	
at of	Electronic circuits so designed and applied that a fault will not render the appliance unsafe		N/A	
VIS-CEI O	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	ist wisst wisst	N/A	
ris-CERT	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	SERT WISCHAIL WISCHAIL	N/A	
	if applicable, to the test of 19.5		N/A	
115 CERT	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	SERIE AIS-CERIE AIS-CERIE	N/A	
0 7	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable		N/A	

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OV iS-CERT         Page 22 of 72         Report No.: OViS202204-002           IEC 60335-2-41+IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
A. (	2, 0, 0, 0, 0, 0,	0, 0, 0,	0
115-CERT	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	CERT WISCHAT WISCHAT	N/A
.S.CERT	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	SCHAT US CHAT US CHAT	N/A
A. A.	Appliances incorporating voltage selector switches subjected to the test of 19.15	19. 19. 19. 19. 19. 19. 19. 19. 19. 19.	N/A
115-00	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	outs outs outs outs	N/A
CER	until steady conditions are established	Str. Str. Str.	N/A
No CERT	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	CERT CERT OUTS OUTS	N/A
115-0	Pumps also subjected to tests of clause 19.101 and 19.102 (IEC 60335-2-41)	outside outside outside	N/A
19.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0,85 times rated power input (W)	SERIE OUS CERT OUS CERT OU	N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1,24 times rated power input (W)	SHAT SHAT SHAT	N/A
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited		N/A
19.5	Test of 19.4 repeated on class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath	CHAT CHAT CHAT ON	N/A
VIS CRI	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	CRI CRI CRI ON	N/A
VIS-OL	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4	SERIE SERIE SERIE	N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	OVIS OVIS OVI	N/A
VIS-CERT	The working voltage of the PTC heating element is increased by 5 % and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1,5 times working voltage or until the PTC heating element ruptures (V)		N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or		N/A
Sc	locking moving parts of other appliances	St. 25. 25.	N/A

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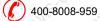




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OV iS-CERT	Page 23 of 72	Report No.: OViS20220	04-002
	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
6 0		01 01 0	, 0,
.S.CERT	Locked rotor, capacitors open-circuited one at a time	SERIE SERIE SCHEE	N/A
no d	Test repeated with capacitors short-circuited one at a time, unless		N/A
C. OFT	capacitor is of class P2 of IEC 60252-1	john storn storn	N/A
Sto CERT	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	CEPT CEPT CEPT	N/A
NIS-CERT	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit (IEC 60335-1:2010/A1:2013)	SCEPT ONISCEPT ONISCEPT	N/A
- CAR	Other appliances supplied with rated voltage for a period as specified		N/A
1.5.0	Winding temperatures not exceeding values specified in table 8	OVISIO OVISIO	N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	Star Star	N/A
19.10	Series motor operated at 1,3 times rated voltage for 1 min (V)		N/A
115 CE	During the test, parts not being ejected from the appliance	SCC WESCC WESCC	N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless	SERT MESCERT MESCERT	N/A
~ (	they comply with the conditions specified in 19.11.1		N/A
S-GER C	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	CER NIE CER NIE CER ON	N/A
A.A.	restarting does not result in a hazard	alter alter	N/A
SERT C	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand- by mode, subjected to the tests of 19.11.4	SERT SERT SERT ON SERT	N/A
VIS CERT	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out	CERT CERT CERT	N/A
les c	During and after each test the following is checked:	ONIS ONIS OF	<u> </u>
CERT	-the temperature of the windings do not exceed the values specified in table 8	SERIE SERIE SERIE	N/A
112 C	- the appliance complies with the conditions specified in 19.13	ovite ovite of	N/A

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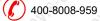


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WiS-CERT	Page 24 of 72	Report No.: OViS20220	4-002
	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
1. 0		0, 0, 0,	1. 01
CERT	-any current flowing through protective impedance not exceeding the limits specified in 8.1.4	Steffin Steffin Stoffin	N/A
ALC CERT ON	If a conductor of a printed board becomes open-circ considered to have withstood the particular test, prov conditions are met:		NY ON
is of	- the base material of the printed circuit board withstands the test of annex E	NIS NIS O	N/A
	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	OFFICE OUTS OFFICE OUTS OFFICE OF	N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	circuits or parts of circuits	Str_
SCHAI	- the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified	office office of the second	N/A
I. O'	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit	OFFICE ATSOLERY ATSOLERY	N/A
19.11.2	Fault conditions applied one at a time, the appliance specified in clause 11, but supplied at rated voltage, specified:		C CERT
SERI ON	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29	CHET CHET CHET	N/A
is all	b) open circuit at the terminals of any component	NIS NIS	N/A
~	c) short circuit of capacitors, unless		N/A
Chi	they comply with IEC 60384-14	ich ich ich	N/A
in of	d) short circuit of any two terminals of an electronic component, other than integrated circuits		N/A
ins. Chi al	This fault condition is not applied between the two circuits of an optocoupler	Str. Wisseth Wisseth	N/A
	e) failure of triacs in the diode mode		N/A
S. Chi	f) failure of microprocessors and integrated circuits	St Str Str	N/A
0	g) failure of an electronic power switching device	on on o	N/A
15-CERI OV	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made	SCEPT ONIS CEPT ONIS CEPT ON	N/A
19.11.3	If the appliance incorporates a protective electronic circuit which operates to ensure compliance with clause 19, the relevant test is repeated with a single fault simulated, as indicated in a) to g) of 19.11.2	OFRI OVISCERI OVISCERI OV	N/A

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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
, C		0, 0, 0,	0
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	SERIE SCHALL SCHAL	N/A
113 0	a device that can be placed in the stand-by mode,	ONLO ONLO ON	N/A
115-CERT	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode	SCHAT WIS CHAT WIS CHAT WIS	N/A
VIS-CERT O	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that	CERT OVIS-CERT OVIS-CERT OV	N/A
VIS-CEN O	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.	Still outs Still outs Still out	N/A
- A	Surge protective devices disconnected, unless	alt alt alt	N/A
.5	They incorporate spark gaps	in wish wish wi	N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	out of the second of the secon	N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N/A
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified	outs outs out outs out	N/A
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified	SCHAL OVIS-CHAL OVIS-CHAL OV	N/A
VIS-CERT	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode (IEC 60335-1:2010/A1:2013)	SCHAT WISSCHAT WISSCHAT W	N/A
1.S.CERT	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling (IEC 60335-1:2010/A1:2013)	Station of Station	N/A
	Earthed heating elements in class I appliances disconnected	· · · · · · · · · · · · · · · · · · ·	N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	ovision ovision ovi	N/A
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-11	CERT WESCHRIT WISCERT	N/A
"S-CERT	Appliances having a rated current exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-34	SCHAIL IS CHAIL IS CHAIL	N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		N/A

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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
7. 0		01. 01. 01.	01.
9.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60 s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	CERT ONIS-CERT OVIS-CERT OVIS	N/A
·5 · · ·	The appliance continues to operate normally, or	St is is is	N/A
0	requires a manual operation to restart	0, 0, 0,	N/A
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)	CERT ONSCERT OVISCERT OVIS	N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	CHAI CHAI CHAI	N/A
53 O	Temperature rises not exceeding the values shown in table 9	ovis ovis	N/A
CERT	Compliance with clause 8 not impaired	CER CER CER	N/A
1 <sup>2</sup> 0 <sup>3</sup>	If the appliance can still be operated it complies with 20.2	OVIS OVIS OVI	N/A
NS CHRY ON	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength tes specified in table 4:		OFR' OWN
- CFT	- basic insulation (V)	den den den	N/A
is a	- supplementary insulation (V)	Si Si Si Si Si	N/A
× 0.	- reinforced insulation (V)	× × × ×	N/A
SCERT ON	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage	CERT ONIS CERT ONIS CERT ON	N/A
15 07	The appliance does not undergo a dangerous malfunction, and	OVIE OVIE OVI	N/A
(S'CERT	no failure of protective electronic circuits, if the appliance is still operable	Station of State of S	N/A
- CA	Appliances tested with an electronic switch in the off mode:	position, or in the stand-by	aller Co
.5	- do not become operational, or	10° 11° 11° 11°	N/A
E-CERT O	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	CERT C.CERT C.CERT	N/A
112 O.	If the appliance contains lids or doors that are contro one of the interlocks may be released provided that:	lled by one or more interlocks,	

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STIC CEN	IEC 60335-2-41+IEC 6033	0. 0 0	002
Clause	Requirement + Test	Result - Remark	Verdict
, (	2. 0, 0, 0, 0, 0,	0, 0, 0,	01
CERT	- the lid or door does not move automatically to an open position when the interlock is released, and	SHAT SHAT SHAT	N/A
Vio at	- the appliance does not start after the cycle in which the interlock was released	ONIS ONIS ON	N/A
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited	CET OVIS-CET OVIS-CET OVI	N/A
NIS-CL	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	or out of out	N/A
VIS-CERT	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	SERIE WIS-SERIE WIS-SERIE WIS	N/A
- AR	If more than one relay or contactor operates in clause 11, they are short-circuited in turn		N/A
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied	outs outs outs out	N/A
19.101	Pump supplied at rated voltage and operated at approximately half at maximum total head for 5 min (IEC 60335-2-41),	out out out out out	N/A
U.S. CER	after which inlet is removed from liquid and operation continued for 7 h (IEC 60335-2-41)	COLDING COLDING	N/A
a de la come de la come La come de la	Pumps operated again for 5 min at approximately half maximum total head (IEC 60335-2-41)		N/A
VIST C	If the pump becomes inoperable during test, it is disconnected from supply and filled with water (IEC 60335-2-41)	out of out of	N/A
19.102	Pumps marked with maximum period of operation supplied at rated voltage and operated under normal operation until steady conditions established (IEC 60335-2-41)	SET OUTS OFT OUTS OFT OUTS	N/A
20	STABILITY AND MECHANICAL HAZARDS		·
20.1	Appliances having adequate stability	Fixed appliance	Р
WIS-OFRI	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn	OFFICE OUTS OFFICE OUTS OFFICE OUTS	N/A
VIS CE.	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	OF WESTER OVER OVER	N/A
115-CERT	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	CERT NIS-CERT NIS-CERT	N/A
	Submersible pumps not subjected to test (IEC 60335-2-41)	in 10 00	N/A

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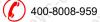




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Clause	Requirement + Test	Result - Remark	Verdict
		Result - Remain	Verdice
.0.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	SERT SCHAT SCHAT	SEPP
R C	Protective enclosures, guards and similar parts are non-detachable, and		РО
C.CER	have adequate mechanical strength	Str. Str. Str.	S <sup>C</sup> P
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts		N/A
is of the	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	OUTS OF OUTS OF OUTS OF OUTS	P
SCHR	Not possible to touch dangerous moving parts with the test probe described	SERIE SECTION SECTION	S <sup>th</sup> P
21	MECHANICAL STRENGTH		_0
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	office and a south a south and	SHRP
is-othi	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	(see appended table)	N/A
-ERI	Pumps, other than shower-boost pumps, impact energy is increased to 1,0 J (IEC 60335-2-41)	No damage.	P
S	The appliance shows no damage impairing compliance with this standard, and	ONE ONE ON	Po
SCERT	compliance with 8.1, 15.1 and clause 29 not impaired	CERT US CERT US CERT	SHP
	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	10 10 10	N/A
(5 <sup>-00</sup>	If necessary, repetition of groups of three blows on a new sample	CC OVISICE OVISICE OVIS	N/A
1.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	SERT SERT SERT	N/A
12 CERT	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	CERT CERT CERT	N/A
	The insulation is tested as specified, and does withstand the electric strength test of 16.3	ovis ovis ovi	N/A
2	CONSTRUCTION		dit -
2.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IPX8	N/A
22.2	Stationary appliance: means to ensure all-pole disco provided:	nnection from the supply being	0 - N
R	- a supply cord fitted with a plug, or	A. A. A.	N/A
CY.	- a switch complying with 24.3, or	Con Con Con	N/A

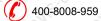
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Clause	Requirement + Test	Result - Remark	Verdict
24. (	2. 0. 0. 0. 0. 0.	0, 0, 0,	6
VIS-CERT	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	CERT WISCERT WISCERT	S OFFIP
,	- an appliance inlet		N/A
WIS-GERT	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 01 and class I appliances, connected to the phase conductor	SERIE OVISCERIE OVISCERIE OV	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets		N/A
C.CER	Applied torque not exceeding 0,25 Nm	John John John	N/A
Wip CERT	Pull force of 50 N to each pin after the appliance has being placed in the heating cabinet; when cooled to room temperature the pins are not displaced by more than 1 mm	CERT SCERT SCERT	N/A
Jan Car	Each pin subjected to a torque of 0,4 Nm; the pins are not rotating, unless		N/A
VISCE	rotating does not impair compliance with this standard	St office office of	N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	CHAT WEICHAT WEICHAT	N/A
22.5	No risk of electric shock when touching the pins of the plug, for appliances having a capacitor with rated capacitance equal to or greater than 0,1 $\mu$ F, the appliance being disconnected from the supply at the instant of voltage peak	of on on on on	N/A
CER.	Voltage not exceeding 34 V (V)		N/A
NIS CRI	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied	outer outer outer outer	N/A
NIS-C	The discharge test is then repeated three times, voltage not exceeding 34 V (V)	NISC ONISC ON	N/A
22.6	Electrical insulation not affected by condensing water or leaking liquid	CERT SCERT SCERT	STP P
Mrs of	Electrical insulation of class II appliances not affected if a hose ruptures or seal leaks	othe othe of	N/A
SCE	In case of doubt, test as described	Stranger Stranger	N/A
ALL CERT	Class II pumps seal is removed from shaft. Pump is supplied at rated voltage and operated for 10 min with maximum head (IEC 60335-2-41)	CERT CERT CERT	N/A
VIS RI	If static pressure can occur, test repeated at a pressure corresponding to maximum total head (IEC 60335-2-41)	CONTROLLER AND	N/A

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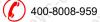


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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
2° C	$\overline{a}_{1}, \overline{a}_{2}, \overline{a}$	0, 0, 0	2. 0
	Pump withstand electric strength test of clause 16.3 (IEC 60335-2-41)	CHAT COLAT COLAT	N/A
VIS OFFIT	Shower-boost pumps with separate enclosure have a drain hole in enclosure positioned so that water can drain out without impairing electrical insulation, unless water cannot accumulate within enclosure in normal use (IEC 60335-2-41)	SCHRI OVIS-CHRI OVIS-CHRI	N/A
CERT	Hole be at least 5 mm in diameter or (IEC 60335-2-41)	Staff SCHIT SCHIT	N/A
Vis C	20 mm <sup>2</sup> in area with a width of least 3 mm (IEC 60335-2-41)	ovie ovie	N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices	Str Wissett Wissett	N/A
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use	CERT OVIS-CERT OVIS-CERT	N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	OVIS-CERT OVIS-CERT	NIE CER
R	the substance has adequate insulating properties	AL AL AL	N/A
22.10	Not possible to reset voltage-maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:	SERT SERT SERT	N/A
115 0	- a non-self-resetting thermal cut-out is required by the standard, and	0113 0113	N/AS
.S.CERT	- a voltage maintained non-self-resetting thermal cut-out is used to meet it	Star Star	N/A
6 195	Non-self-resetting thermal motor protectors have a trip-free action, unless	130 100 100 100 100 100 100 100 100 100	N/A
.5	they are voltage maintained		N/A
e. CERT	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	CERT CERT	N/A
2.11	Reliable fixing of non- detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	CHAT CHAT CHAT	P
	Obvious locked position of snap-in devices used for fixing such parts	OVIE OVIE	Nº PO
VIS-CERT C	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	CERT OVIS-CERT OVIS-CERT	N/A
~	Tests as described		бР

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	IEC 60335-2-41+IEC 6033	1	-
Clause	Requirement + Test	Result - Remark	Verdict
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard	offer offer	CH <sup>P</sup> P
WID CEERI	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard	CERT CERT CERT	N/A
Wiss (	A choking hazard does not apply to appliances for commercial use	outer outer out	N/A
S.S. GERI	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	a fille and fille and fille and fille	N/A
SN. C	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	10 10 10 13 13 13	P
VISION C	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard	out out out out	N/A
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only	outs outs outs outs outs	N/A
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	St. St. St.	P
	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance	SCERT VISCERT VISCERT	CH <sup>R</sup> P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands and no undue wear of contacts	SERT SERT SERT	N/A
VIS C	Cord reel tested with 6000 operations, as specified	NIS NIS N	N/A
CERT	Electric strength test of 16.3, voltage of 1000 V applied	effi effi	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	ovin ovin ovi	N/A
22.18	Current- carrying parts and other metal parts resistant to corrosion		Str P
22.19	Driving belts not relied upon to provide the required level of insulation, unless		N/A
115	constructed to prevent inappropriate replacement		N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless		N/A
VISCO	material used is non-corrosive, non-hygroscopic and non-combustible	OVISIONISCO OVISION	N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	SERIE SERIE SERIE	CERP

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	IEC 60335-2-41+IEC 6033	5-1	
lause	Requirement + Test	Result - Remark	Verdict
, (	a. 0 <u>.</u> 0 <u>.</u> 0 <u>.</u> 0 <u>.</u> 0 <u>.</u>	0, 0, 0,	0
-R	impregnated	A AN AN	N/A
15-CL	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	of of other of other	N/A
22.22	Appliances not containing asbestos	sen sen sen	St P
22.23	Oils containing polychlorinated biphenyl (PCB) not used		N/A
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	SEEL ONIS SEEL ONIS SEEL ON	N/A
.S.S.F.R.	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	SERIE SECTION SECTION	N/A
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts	CERT ON CUT ON ON	N/A
22.26	For class III constructions the insulation between parts operating at safety extra- low voltage and other live parts complies with the requirements for double or reinforced insulation	CERT ON SCENT ON SCENT ON	N/A
22.27	Parts connected by protective impedance separated by double or reinforced insulation	SERIE SERIE	N/A
22.28	Metal parts of class II appliances conductively connected to gas pipes or in contact with water, separated from live parts by double or reinforced insulation	CERT SCERT SCERT	N/A
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation	CERT CERT CERT	N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	THE SHE SHE	PON
115-CERT	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete	offit offit offit offit	PON
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	SERT OUS OUS OUS OU	CHAPON
S. Stall	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose	CERT SCERT SCERT	CHRP
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29	SCHAIL IS CHAIL IS CHAIL	CHRP .





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## Report No.: OViS202204-002

0V iS-CERT Page 33 of 72 Report No.: OViS202204-002				
	IEC 60335-2-41+IEC 6033	1		
Clause	Requirement + Test	Result - Remark	Verdict	
VIS-CERT C	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2	CERT ONIS CERT ONIS CERT OF	N/A	
	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation	CERI ONTS CERI ONTS CERI ON	N/A	
VIS-CERT C	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation (IEC 60335-1:2010/A1:2013)	CERT ONIS CERT ONIS CERT ON	N/A	
SCERT	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	SER SCERIES SCERIE	N/A	
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts	SCHAL MESCHAL	CHEP IN	
	unearthed metal parts separated from live parts by basic insulation only (IEC 60335-1:2010/A1:2013)		N/A	
5	Electrodes not used for heating liquids		N/A	
INS-CERT C	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless	CERT ONSCERT ONSCERT OF	N/A	
- AR	the reinforced insulation consists of at least 3 layers		N/A	
in crit	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless		N/A	
S	the reinforced insulation consists of at least 3 layers		N/A	
	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	CERT CURT CURT	N/A	
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	ovino ovino ov	N/A	
CETT	the shaft is not accessible when the part is removed	String String String	N/A	
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation	CERT IS CERT IS CERT	N/A	
UIS-CERT	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation	CERT OVISCERT OVISCERT OV	N/A	

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	OV iS-CERT         Page 34 of 72         Report No.: OViS202204-002           IEC 60335-2-41+IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict		
Clause		Result - Remark			
WIS-CERT C	This requirement does not apply to handles, levers and knobs on stationary appliances and cordless appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal. P	SERIE OVIS-CERT OVIS-CERT OV	N/A		
VIS C	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	CHET CHET CHET	N/A		
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless	CERT WISCHART WISCHRIT	N/A		
- AR	they are separated from live parts by double or reinforced insulation	after after after	N/A		
22.37	Capacitors in class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless	CERT CERT CERT	N/A		
115	the capacitors comply with 22.42	NIS NIS	N/A		
2.38	Capacitors not connected between the contacts of a thermal cut-out	State State	<b>J</b>		
22.39	Lamp holders used only for the connection of lamps	o with with a	N/A		
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch being easily visible and accessible	OFFICE OVISCEPT OVISCEPT OV	N/A		
VIS-CERT C	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible	CERT OVIS-CERT OVIS-CERT OVI	N/A		
- ART	Requirement not applicable to submersible pumps and vertical wet pit pumps (IEC 60335-2-41)		N/A		
22.41	No components, other than lamps, containing mercury	outs outs out	P (		
22.42	Protective impedance consisting of at least two separate components	other is the south	N/A		
V. CERT	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	CERT CERT ON ON	N/A		
VIIS (	Resistors checked by the test of 14.1 a) in IEC 60065	outing outing out	N/A		
SCHRI	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	Station States States	N/A		

pursurvanary poncess genined unerenit, rins test report includes ail or the tests requested by you and the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report to notify us of any error or omission caused by our negligence. Provided, hower, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of this report, the tests conducted and the correctness of the report contents.



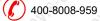


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	IEC 60335-2-41+IEC 6033				
Clause	Requirement + Test	Result - Remark	Verdict		
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	CERT WIS-CERT	N/A		
22.44	Appliances not having an enclosure that is shaped or decorated like a toy	AND AND AND	P		
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure	SERIE SCEPT OVISION	N/A		
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1	CERT ONS OUS	N/A		
NIS-CERT	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards	CERT MIS-CERT	N/A		
S-CERT	These requirements are not applicable to software used for functional purpose or compliance with clause 11	CERT CURT CERT	N/A		
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use	over over	N/A		
MIS-CEL	No leakage from any part, including any inlet water hose	NISCO NISCOL	N/A		
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water	CERT JISCERT JISCERT	N/A		
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless		N/A		
Mis-Cr	the appliance switches off automatically or can operate continuously without hazard	out outside outside	N/A		
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	Steffin Steffin Steffin	N/A		
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode	CERT CERT CERT	N/A		
Wi <sup>S</sup>	There is a visual indication showing that the appliance is adjusted for remote operation	ONIS ONIS	N/A		
S.CERI	These requirements not necessary on appliances the without giving rise to a hazard:	at can operate as follows,	CERT IS		
2, 0	- continuously, or	0, 0,	N/A		
CHRI	- automatically, or	effi effi	N/A		
VIS	- remotely	NIS WIST	N/A		
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold	Station Station Station	N/A		

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	IEC 60335-2-41+IEC 6033	5-1				
Clause	Requirement + Test	Result - Remark	Verdict			
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts	CERT ONIS CERT ONIS CERT ON	N/A			
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	SERIE IS OFFICE IS OFFICE	N/A			
CERT OF	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	State State State	N/A			
22.55	Devices operated to stop the intended function of the appliance, if any, are be distinguished from other manual devices by means of shape, size, surface texture or position	CERT SCENT SCENT	N/A			
54° - 64	The requirement concerning position does not preclude use of a push on push off switch	0 <sup>11</sup> 0 <sup>11</sup> 0 <sup>1</sup>	N/A			
C.C.C.C.	An indication when the device has been operated is	given by:	C C C C			
in or	-tactile feedback from the actuator or from the appliance, or	at at at	N/A			
CCC .	reduction in heat output; or	ict i ct i ct	N/A			
0	audible and visible feedback	0 <sup>31</sup> 0 <sup>31</sup> 0 <sup>3</sup>	N/A			
2.56	Detachable power supply part provided with the part of class III construction	othin a child	N/A			
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in annex T	CERT SCERT SCERT	N/A			
22.101	Pumps withstand the static pressure occurring in normal use (IEC 60335-2-41)	OVIS OVIS OV	РО			
US-CERT OF	Pump filled with water, ensuring that all air is removed. Pressure raised hydraulically to 1,2 times pressure occurring at maximum total head and maintained for 1 min (submersible pumps and vertical wet pit pumps not subjected to this test) (IEC 60335-2-41)	Submersible pumps	N/A			
NIS-CERT OF	No trace of water on insulation that could result in a reduction of clearances and creepage distances below values specified in clause 29 (IEC 60335-2-41)	CERT OF CERT OF CERT OF	N/A			
22.102	Material of pump not be affected by liquid for which pump is intended if a hazard could result (IEC 60335-2-41)	SERT SSERT SSERT	CHIP			
22.103	Submersible pumps and vertical wet pit pumps so constructed that pollution of liquid by lubricants prevented as far as possible (IEC 60335-2-41)	CERT CERT CERT	SELFF P			
22.104	Submersible pumps and vertical wet pit pumps having a mass > 3 kg so constructed that means for hoisting can be attached (IEC 60335-2-41)	To The The The	P			

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IEC 60335-2-41+IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
2, 0		0, 0, 0,	0
22.105	Class I submersible pumps with plastic enclosure so constructed that leakage of liquid into motor does not result in a hazard (IEC 60335-2-41)		N/A
S.CERT	After specified test accumulating water come in contact with earthed metal before it reaches live parts (IEC 60335-2-41)	CHAT IS CHAT IS CHAT	N/A
22.106	Shower-boost pumps constructed so that they can be permanently connected to water supply (IEC 60335-2-41)	CHAN CHAN CHAN CO	N/A
MID CERT	Shower-boost pumps for wall mounting constructed so that they can be securely fixed independently of connection to water supply (IEC 60335-2-41)	CERT CERT CERT	N/A
WIS-CERT	Keyhole slots, hooks and similar means, without any further means to prevent the pump from being inadvertently lifted off the wall, are not considered to be adequate means for fixing the pump securely. (IEC 60335-2-41)	CERT MISCHAT MISCHAT	N/A
23	INTERNAL WIRING		~ ~
23.1	Wireways smooth and free from sharp edges	oth oth oth	J.St. P
in c	Wires protected against contact with burrs, cooling fins etc.	outine outine out	РО
VIS-CERT	Wire holes in metal well-rounded or provided with bushings	SEE WESCHER WESCHER	S CETT P
	Wiring effectively prevented from coming into contact with moving parts		<b>P</b>
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	ovies ovies ovi	N/A
.S. SERT	Beads inside flexible metal conduits contained within an insulating sleeve	CERT SCEPT SCEPT	N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	Child Child	N/A
N'IS C	Flexible metallic tubes not causing damage to insulation of conductors	oution oution out	N/A
SER	Open- coil springs not used	SER SER SER	N/A
Vis C	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another		N/A
115 CER	No damage after 10 000 flexings for conductors flexed during normal use, or	SERVICE SERVICES	N/A
a star	100 flexings for conductors flexed during user maintenance		N/A
VISION C	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	outs outs outs	N/A
CERT	Not more than 10 % of the strands of any conductor broken, and	SERIE SERIE SERIE	N/A

within the \_\_\_\_\_\_ 400-8008-959 This fest keport is issued by the Company subject to its Conditions of issuance of lest Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. This test report includes all of the tests requested by you and the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report to notify us of any error or omission caused by our negligence, Provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

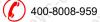




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OV iS-CERT         Page 38 of 72         Report No.: OViS202204-002           IEC 60335-2-41+IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict	
24. 0	$\mathcal{L}_{\mathcal{L}}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}}_{\mathcal{L}_{\mathcal{L}}_{\mathcal{L}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}}}}}}}}}$	0, 0, 0,	. <i>0</i> 2.	
CERT	not more than 30 % for wiring supplying circuits that consume no more than 15 W	CHAIL COUNT COUNT	N/A	
23.4	Bare internal wiring sufficiently rigid and fixed	ONE ONE ON	N/A	
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	CERT MISCERT MISCERT M	IS OFFICE	
.S.CERT	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	offit is offit is offit	N/A	
SN. CERT	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	Steph Steph Steph	CHRP ON	
MID C	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,	CHER CHER CHER	N/A	
NISTON C	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.	OVISION OVISION	N/A	
NIS-GEN C	A single layer of internal wiring insulation does not provide reinforced insulation	CE OVISCE OVISCE	P P	
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	SCHAT MESCHAT MESCHAT	N/A	
s. c	be such that it can only be removed by breaking or cutting		N/A	
23.7	The colour combination green/yellow only used for earthing conductors	ovision ovision of	P	
23.8	Aluminium wires not used for internal wiring	althe althe althe	P	
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	of of of of	PO	
C.C.C.	the contact pressure is provided by spring terminals	Stranger and a stranger	N/A	
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)	CERT ONE CERT ONE CERT ON	N/A	
24	COMPONENTS	I	-95	
24.1	Components comply with safety requirements in relevant IEC standards	ovision ovision ovi	N/A	
CRI	List of components	AL AL AL	N/A	
NIS C	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	or ovision ovision ov	N/A	
and and	Relays tested as part of the appliance, or	A A A	N/A	

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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
, C	2, $0$ , $0$ , $0$ , $0$ , $0$ , $0$ , $0$ , $0$	0, 0, 0	n. 0 <sub>2</sub> .
CERT	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	SERT SERT SERT	N/A
and the second s	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	CERT CERT CERT	N/A
i <sup>ST</sup>	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	of ourse ourse of	N/A
in our 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	COT ONE COT ONE COT ON	N/A
SERI C	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	SC ONISC ONISC ON	N/A
is ctri	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	CERT ONIS CERT ONIS CERT ON	N/A
CERT	If these conditions are not satisfied, the component is tested as part of the appliance.	ethi ethi ethi	N/A
	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	ovis ovis ov	N/A
SCHA	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	out outs out outs out ou	N/A
is other	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	CERT SCERT SCERT	N/A
S CERT	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	CERT SCERT SCERT	N/A
is ctRi	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	out outs offen outs offen of	N/A
is cent	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	off off off off of	N/A

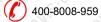
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	IEC 60335-2-41+IEC 6033	5-1	IEC 60335-2-41+IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict				
<i>.</i> 6		0, 0, 0,	0. 0.				
4.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14	CERT OVISCERT OVISCERT OV	N/A				
SCHRI	If the capacitors have to be tested, they are tested according to annex F	StatiSistatiSistati	N/A				
4.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16	6 6 6 A A	N/A				
15-CV 6	Safety isolating transformers complying with IEC 61558-2-6	Ct office office of	N/A				
CERT	If they have to be tested, they are tested according to annex G	SERT SERT SERT	N/A				
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000		N/A				
S.CEM	Level switches subjected to 50 000 cycles of operation (IEC 60335-2-41)	Str. Mester Mester	N/A				
-thin	If they have to be tested, they are tested according to annex H		N/A				
5000	If the switch operates a relay or contactor, the complete switching system is subjected to the test	ovision ovision ov	N/A				
is offen o	If the switch only operates a motor staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested	CERT OVIS-CERT OVIS-CERT OV	N/A				
24.1.4	Automatic controls complying with IEC 60730-1 with of cycles of operation being at least:	the relevant part 2. The numbe	er chill				
~ 0	- thermostats:	0, 0, 0	N/A				
CER	- temperature limiters: 1 000	CHA CHA CHA	N/A				
6	- self-resetting thermal cut-outs:	With With all	N/A				
CERT	- voltage maintained non-self-resetting thermal cut-outs:	Steff Steff Steff	N/A				
° 6	- other non-self-resetting thermal cut-outs:	ONIS ONIS ON	N/A				
1. St.	- timers:	the the the	N/A				
,0 <sup>(1)</sup>	- energy regulators:	, 5° , 5° , 5°	N/A				
CERT	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	CERT ON CHAIN ON CERT	N/A				
C.CERT	Thermal motor protectors are tested in combination with their motor under the conditions specified in annex D	Start Schall Schall	N/A				

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Clause	Requirement + Test	Result - Remark	Verdict
24. (	$2_{2}$ $0_{2}$ $0_{3}$ $0_{3}$ $0_{3}$ $0_{3}$	07 02	0, 0,
WIS-CERT	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	OFFICE ONIS OFFICE ONIS OFFICE	N/A
WiS-CL	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9 (IEC 60335-1:2010/A1:2013)	OF OUS OF OUS OF	N/A
24.1.5	Appliance couplers complying with IEC 60320-1	SER SER SER	N/A
NIS CERT	However, for class II appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3	APPEN SERIE SERIE	N/A
Wi <sup>ST</sup>	Interconnection couplers complying with IEC 60320-2-2	OVIS OVIS	N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable	SCHAL WESCHAL WISCHAL	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	OFFICE OVISOFERT OVISOFERT	N/A
24.1.8	The relevant standard for thermal links is IEC 60691	A. A. A.	N/A
NIS-OF	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of clause 19	of of of of	N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance	SCE NISCE NISCE	N/A
WIS-CERT	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	CERT OVISCERT OVISCERT	N/A
24.2	Appliances not fitted with:	A A A	1 A
.5	- switches or automatic controls in flexible cords		N/A
SN. CERT	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	CERT SCERT SCERT	N/A
NIS (	- thermal cut-outs that can be reset by soldering, unless	The The The	N/A
SCH	the solder has a melding point of at least 230 °C	Stranger Stranger	N/A
Jun of	Level switches incorporated in interconnection cords (IEC 60335-2-41)	on on on	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	CHAI CHAI CHAI	N/A

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IEC 60335-2-41+IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict	
<u></u>		07 07 03	0	
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	CERT OVISCERT OVISCERT OV	N/A	
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	CHAT CHAT CHAT ON	N/A	
WISS CERT	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	SCHART SCHART SCHART SCHART	N/A	
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V	CERT CERT CERT	N/A	
Mrs of	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	SET NISCET NISCET	N/A	
4	They are supplied with the appliance		N/A	
WiS-CER	Appliances intended to be permanently connected to the water mains not connected by a detachable hose- set	OF ONE OF ONE OF O	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	CERT ONE CERT ONE CERT ON	N/A	
CERT	One or more of the following conditions are to be me	ticth cith cith	Str_	
NID of	- the capacitors are of class P2 according to IEC 60252-1		N/A	
NIS-OFF	- the capacitors are housed within a metallic or ceramic enclosure	SET NIE SET NESET	N/A	
CERT	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	CHAT CHAT CHAT	N/A	
Wi <sup>S</sup>	- adjacent non- metallic parts within 50 mm withstand the needle-flame test of annex E	OVIES OVIES OF	N/A	
JIS CERT	- adjacent non- metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	SERIE AND SERIES AND	N/A	
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBL	ECORDS	0	
25.1	Appliance not intended for permanent connection to connection to the supply:	fixed wiring, means for	GER <u>i</u>	
s. cthi	- supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance	State State State	N/A	

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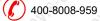




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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
2. 0		01. 01. 01.	01
WiS-CERT OF	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	CERT WISCHRI WISCHRI	N/A
, 	- pins for insertion into socket-outlets		N/A
VIS-CEIL	Submersible pumps, other than class III, provided with a supply cord fitted with a plug	SCELL MISCOLL MISCOLL MIS	N/A
25.2	Appliance not provided with more than one means of connection to the supply mains		N/A
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown	CERT OVISCERT OVISCERT OVIS	N/A
25.3	Appliance intended to be permanently connected to the following means for connection to the supply ma		CERT.
VISIO O	- a set of terminals allowing the connection of a flexible cord	ovie ovie ovie	N/A
- (R)	- a fitted supply cord	ath ath ath	N/A
5000	-a set of supply leads accommodated in a suitable compartment	ovie ovie ovie	N/A
WIS CERT OF	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	OFFI ONS OFFI ONS OFFI ONS	N/A
VISCERT O	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	CERT ONISCERT ONISCERT ONIS	N/A
WIS-CERT OF	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support	CERT OUTS CERT OUTS CERT OUTS	N/A
NIS-CE O	Submersible pumps, other than class III pumps, provided with a flexible cord (IEC 60335-2-41)	CC WE CT WE CT	N/A
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)	SCHAT WIS-CHAT WIS-CHAT	N/A
-S-CERT	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29	CERT SCERT SCERT	N/A
25.5	Method for assembling the supply cord to the applian	nce: 01 01 01	N/A
CERT	- type X attachment (not allowed for submersible pumps) (IEC 60335-2-41)	Station Station	N/A

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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
, (	$\mathcal{L}_{\mathcal{L}}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}}_{\mathcal{L}_{\mathcal{L}}_{\mathcal{L}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}_{\mathcal{L}}}}}}}}}}$	0, 0, 0,	01
-A	- type Y attachment	A A A	N/A
1 <sup>15</sup>	- type Z attachment for pumps having a rated power input ≤ 100 W (IEC 60335-2-41)	out offerer offerer offe	N/A
S. CERT	- type Z attachment pumps for garden ponds (IEC 60335-2-41)	Stating Stating Stating	N/A
Stor C	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
115-CETT	For multi- phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment	SCET. WESCET. WISCOTT. ONIS	N/A
25.6	Plugs fitted with only one flexible cord		N/A
25.7	Pumps intended for outdoor use and pumps intended than class III pumps, supply cord be (IEC 60335-2-4 <sup>-2</sup>		N/A
115-OU	- polychloroprene sheathed or equivalent synthetic elastomer and not lighter than heavy polychloroprene sheathed cord (code designation 60245 IEC 66). However (IEC 60335-2-41),	CON ONIS CON ONIS CON ONIS	N/A
CERT C	- fixed pumps having a rated power input ≤ 1 kW and portable pumps having a mass ≤ 5 kg fitted with ordinary polychloroprene sheathed cord (code designation 60245 IEC 57) (IEC 60335-2-41)	SERIE SERIE SERIE	N/A
in a	Pumps intended for indoor use, except table fountain shower-boost pumps and class III pumps, supply core		N/A
its offer of	- polychloroprene sheathed or equivalent synthetic elastomer and not be lighter than ordinary polychloroprene sheathed cord (code designation 60245 IEC 57) (IEC 60335-2-41)	Softer ONESCHER ONESCHER ONE	N/A
C.CET	Supply cords, other than for class III appliances, beir	ng one of the following types:	N/A
() ()	- rubber sheathed (at least 60245 IEC 53)	ONE ON ON	N/A
-AS	- polychloroprene sheathed (at least 60245 IEC 57)	A A A	N/A
is of	- polyvinyl chloride sheathed. Not used if they are like temperature rise exceeding 75 K during the test of cl		N/A
11S-CERT	<ul> <li>light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg</li> </ul>	CERT WISCERT WISCERT WIS	N/A
CERT	- ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	station stations and stations	N/A
12	- heat resistant polyvinyl chloride sheathed. Not used specially prepared cords	for type X attachment other than	N/A
VIS-CERT	- heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	SERIONSCERIONSCERIONS	N/A
CERT	- heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances	star star star	N/A

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OVIS-CERT



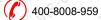


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	IEC 60335-2-41+IEC 6033	5-1		
Clause	Requirement + Test	Result - Remark	Verdict	
CERT C	Supply cords for class III appliances adequately insulated	SERIE SERIE SERIE	N/A	
Nis a	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	of other of	N/A	
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm <sup>2</sup> )	SET OVIS SET OVIS SET	N/A	
WIS-CERT	Supply cord of submersible pumps intended for outdoor use, other than class III pumps, has a length of 10 m or at least 3 m in excess of the maximum operating depth marked on the pump, whichever is greater (IEC 60335-2-41)	SERIE OUTS SERIE OUTS SERIE	N/A	
VIS-CERT	Supply cord of submersible pumps, other than class III pumps, aquarium pumps and table fountain pumps, has a length of at least 3 m in excess of the maximum operating depth marked on the pump (IEC 60335-2-41)	CERT WISCORT WISCORT	N/A	
VIS-CERT	Supply cord of deep well pumps have a length of at least 3 m in excess of the maximum well depth, unless the deep well pump is provided with a coupling device having at least the same degree of protection as required for the pump.	OFFICE OVISCENT OVISCENT	N/A	
25.9	Supply cords not in contact with sharp points or edges	CERI USCERI	N/A	
25.10	Supply cord of class I appliances have a green/yellow core for earthing	19 00 00	N/A	
15.01	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue.	ON ONE ONE	N/A	
-A	Where additional neutral conductors are provided in	the supply cord:	- A3	
15.01	-other colours may be used for these additional neutral conductors;	ich ovision ovision	N/A	
is-othi	-all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445	SERI MISCHER MISCHER	N/A	
~	-the supply cord is fitted to the appliance		N/A	
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless	CEP OVIS-CEP OVIS-CEP	N/A	
CERN	the contact pressure is provided by spring terminals	SER' SER' SER	N/A	
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	OVIS OVIS	N/A	
25.13	Inlet openings so constructed as to prevent damage to the supply cord	John John John	N/A	

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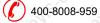


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	IEC 60335-2-41+IEC 6033	1		
Clause	Requirement + Test	Result - Remark	Verdict	
VIS-CERT OV	If it is not evident that the supply cord can be introduced without risk of damage, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided	CERT OVISCERT OVISCERT OV	N/A	
is stRi	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is	CERT SERVICE CERT	N/A	
° 0 ×	class 0, or		N/A	
CERT	a class III appliance not containing live parts	off' off' off'	N/A	
25.14	Supply cords moved while in operation adequately protected against excessive flexing		N/A	
is chan	Portable pumps are subjected to the test. (IEC 60335-2-41):	CER NIS-CER NIS-CER	N/A	
- CAN	Flexing test (only for portable pumps, except table fou pumps) (IEC 60335-2-41):	ntain pumps and aquarium	N/A	
5	- applied force (N)		N/A	
~ 0	- number of flexings	V V V	N/A	
CERT	The test does not result in:	off off off	CtR-	
5 0	-short-circuit between the conductors, such that the current exceeds a value of twice the rated current	ovies ovies ov	N/A	
is official	-breakage of more than 10 % of the strands of any conductor	CER WECER WECHT	N/A	
0	- separation of the conductor from its terminal		N/A	
SER	- loosening of any cord guard	off off off	N/A	
3 6	- damage to the cord or the cord guard	ONE ONE ON	N/A	
CERT	- broken strands piercing the insulation and becoming accessible	Start Start Start	N/A	
5.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage	CERT OVIS CERT OVIS CERT OV	N/A	
is-offit	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	Steffi Wisceffi Wisceffi w	N/A	
~ 0	Pull and torque test of supply cord:	2, 2, 2, 2,	~_0	
S-GERY	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (N.m)	SCEPT WIS-SEPT WIS-SEPT W	N/A	
- SIGERI	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (N.m)	CERT SCERT SCERT	N/A	
N. O	Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (N.m)	efter efter efter og	N/A	

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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
St. CERT	Cord not damaged and max. 2 mm displacement of the cord		N/A
25.16	Cord anchorages for type X attachments constructed	and located so that:	S
A.	- replacement of the cord is easily possible	As As As	N/A
Vision	- it is clear how the relief from strain and the prevention of twisting are obtained	NIE OVIE ON	N/A
R	- they are suitable for different types of supply cord	the the the	N/A
1.5	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	ovision ovision of	N/A
SCERT	they are separated from accessible metal parts by supplementary insulation	steft ssteft ssteft	N/A
NI- C	- the cord is not clamped by a metal screw which bears directly on the cord	an an an	N/A
115-CEL	- at least one part of the cord anchorage securely fixed to the appliance, unless	oth wiscon wiscon	N/A
, al	it is part of a specially prepared cord		N/A
ins other	- screws which have to be operated when replacing the cord do not fix any other component, unless	ot west west	N/A
CERT	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	SHALL SHALL SHALL	N/A
jis (	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood		N/A
	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless	OUS-OFFICE OVIS-OFFICE OV	N/A
C.CERT	failure of the insulation of the cord does not make accessible metal parts live	sthin softing sthin	N/A
in at	- for class II appliances they are of insulating material, or		N/A
115 CEL	if of metal, they are insulated from accessible metal parts by supplementary insulation	Set MESSER MESSER	N/A
1:5-CERT	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	official and a solution of the	N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	Star Star Star	N/A
25.18	Cord anchorages only accessible with the aid of a tool, or		N/A
115 CER	Constructed so that the cord can only be fitted with the aid of a tool	Str. Mischen Mischen	N/A
25.19	Type X attachment, glands not used as cord anchorage in portable appliances		N/A

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	IEC 60335-2-41+IEC 6033	0.00	
Clause	Requirement + Test	Result - Remark	Verdict
2. 0	<u>,</u>	0, 0, 0,	07
COERT	Tying the cord into a knot or tying the cord with string not used	SHA SSHA	N/A
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts (IEC 60335-1:2010/A1:2013)	CEFT CEFT ON ON	N/A
25.21	Space for supply cord for type X attachment or for co constructed:	onnection of fixed wiring	
VIS-CERT	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover	CERT OVIS-CERT OVIS-CERT OVIS	N/A
CERT	- so there is no risk of damage to the conductors or their insulation when fitting the cover	SERIE SERIE SERIE	N/A
STP CERT	<ul> <li>for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts</li> </ul>		N/A
1 <sup>19</sup>	2 N test to the conductor for portable appliances; no contact with accessible metal parts	OVIST OVIST OVI	N/A
25.22	Appliance inlets:	alter alter alter	de la companya de la
1.15	- live parts not accessible during insertion or removal	is with a with a with	N/A
- LPA	Requirement not applicable to appliance inlets complying with IEC 60320-1		N/A
115°	- connector can be inserted without difficulty	ALIS ALIS AL	N/A
~	- the appliance is not supported by the connector		N/A
115 CET	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless	CET NISCET NISCET	N/A
~	the supply cord is unlikely to touch such metal parts		N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	SET WEST WEST	N/A
.S.CERT	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	CHAT IS CHAT IS CHAT	N/A
2	- the thickness of the insulation may be reduced	0, 0, 0,	N/A
CHR)	If necessary, electric strength test of 16.3	all all all	N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected		N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet.	out out out out	N/A
VIS-OFFN	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	OFFICE OVISION OVISION OVI	N/A
26	TERMINALS FOR EXTERNAL CONDUCTORS		-95

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Clause	Requirement + Test	Result - Remark	Verdict	
Clause			Verdict	
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	SCEPT MISCEPT MISCEPT	C CHE P	
CHERN )	Terminals only accessible after removal of a non-detachable cover, except		<b>E</b> FFP	
1.5	for class III appliances that do not contain live parts		N/A	
VIS-CERT	Earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection	CERT OVIS-CERT OVIS-CERT OF	N/A	
26.2	Appliances with type X attachment and appliances for the connection of cables to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless	out out out out of the	IN CHAIN	
- IRI	the connections are soldered	AT AT AT	N/A	
15.0	Screws and nuts not used to fix any other component, except	ovisio ovisio ov	P	
VIS-OFRI	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	SCHAIL ONIS-CHAIL ONIS-CHAIL ON	CHAIP	
IS-CERT	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	SCEPT MISSERT MISSERT	N/A	
VIS-CERT	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint	OFFIT ONE CERT ONE CERT OF	N/A	
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor	StRi ONIS STRI ONIS STRI ON	CERT P ()	
J'S'	Terminals fixed so that when the clamping means is	tightened or loosened:	10-10	
10.	- the terminal does not become loose		P	
Sicht	- internal wiring is not subjected to stress		S <sup>ST</sup> P	
N' GI	- neither clearances nor creepage distances are reduced below the values in clause 29	6 16 16 16	P	
VIS-OC	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (N.m)	CUT ONIS OF ONIS OF ON	PO	
C.C.	No deep or sharp indentations of the conductors	Str. Str.	P	

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	IEC 60335-2-41+IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
<i>b</i> . (	$\mathcal{D}_{\mathcal{D}}_{\mathcal{D}_{\mathcal{D}}}}}}}}}}$	07. 07. 0	1. 0,	
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and	CERT ONIS CERT ONIS CERT OF	N/A	
V15-01	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened		N/A	
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard	Setting of the set of the set	N/A	
.5.00	Stranded conductor test, 8 mm insulation removed		N/A	
an al	No contact between live parts and accessible metal parts and,	6 <sup>41</sup> 6 <sup>41</sup> 6	N/A	
VIS-OC	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	out out out out of	N/A	
26.6	Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm <sup>2</sup> )	SER OVISCER OVISCER O	CHER DO	
1 <sup>15</sup>	If a specially prepared cord is used, terminals need only be suitable for that cord	owned owned of	N/A	
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure	OUTS-OFFICE OUTS-OFFICE OFFICE	N/A	
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other	CERT WISCERT WISCERT	CEPT P	
26.9	Terminals of the pillar type constructed and located as specified		N/A	
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	ovis ovis of	N/A	
.S. CERI	conductors ends fitted with means suitable for screw terminals	off as off as off a	N/A	
<i>ч</i> . (	Pull test of 5 N to the connection	0, 0, 0	PO	
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	CERL US CERL US CERL	S SH P	
S CERT	For class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	Stati Stati Stati	N/A	

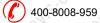
OVIS-OFFIT 115-CERT This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability indemnification and jurisdictional policies defined therein. This test report includes all of the tests requested by you and the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report to notify us of any error or omission caused by our negligence. Provided however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. VIS-OFFI



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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
2. 0		0, 0, 0	2. 0
VIS-CERT	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free	CERT ONS CERT ON S CERT OF	N/A
27	PROVISION FOR EARTHING		<u></u>
27.1	Accessible metal parts of class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet	CERT CERT CERT	N/A
	Earthing terminals and earthing contacts not connected to the neutral terminal		N/A
VIS OFF	Class 0, II and III appliances have no provision for protective earthing	CET NISCET NISCET	N/A
	Class II appliances and class III appliances can incorporate an earth for functional purposes		N/A
1.15	Safety extra-low voltage circuits not earthed, unless	in wish wish	N/A
~	protective extra-low voltage circuits		N/A
27.2	Clamping means of earthing terminals adequately secured against accidental loosening	SER. MASCER. MISCER.	N/A
S.CERT	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2,5 to 6 mm <sup>2</sup> , and	Steph second	N/A
Nr. Chi	do not provide earthing continuity between different parts of the appliance, and		N/A
VISCOL	conductors cannot be loosened without the aid of a tool	SC OVISION OVISION	N/A
VIS-SERT	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes (IEC 60335-1:2010/A1:2013)	CERT WISCERT WISCERT	N/A
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current- carrying connections when removing the part	CERT ONIS-CERT ONIS-CERT OF	N/A
N'IS-CER O	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	CERT ONIS CERT ONIS CERT OF	N/A
WiS-OERT	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes (IEC 60335-1:2010/A1:2013)	CERT ONIS CERT ONIS CERT OF	N/A
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal	SCHAT ITS CHAT ITS CHAT	N/A
CERT C	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	CHE CHE CHE	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2. 0	$\mathcal{D}_{1}^{\prime}$ $\mathcal{D}_{1}^{\prime}$ $\mathcal{D}_{1}^{\prime}$ $\mathcal{D}_{1}^{\prime}$ $\mathcal{D}_{1}^{\prime}$ $\mathcal{D}_{1}^{\prime}$ $\mathcal{D}_{1}^{\prime}$	<u> </u>	. 6
CERT	If of steel, these parts provided with an electroplated coating with a thickness at least 5 $\mu m$	stati sstati sstati	N/A
Win CERT	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	CERT CERT CERT	N/A
Wi <sup>S'</sup> RÍ	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion	NIST NIST OVIST	N/A
WiS-CL	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes (IEC 60335-1:2010/A1:2013)	Set officer officer of	N/A
27.5	Low resistance of connection between earthing terminal and earthed metal parts	SET WESCET WISCH	N/A
WIS-CERT	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance	OFFICE OVISICERIO OVISICERIO OVI	N/A
VIS-CERT	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	CER OVISCER OVISCER OV	N/A
SOURT	Resistance not exceeding 0,1 $\Omega$ at the specified low-resistance test ( $\Omega$ )	OFFICE SOFFICE SOFFICE	N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.	CHEN CHEN CHEN	N/A
NIS CERT	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit	CERT CERT CERT	N/A
Nic CERT	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes (IEC 60335-1:2010/A1:2013)	CEPT CEPT CEPT	N/A
28	SCREWS AND CONNECTIONS		
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	CERT US CERT US CERT	S SEP P
S" LET	Screws not of soft metal liable to creep, such as zinc or aluminium		P
15	Diameter of screws of insulating material min. 3 mm	6	N/A
S. CERT	Screws of insulating material not used for any electrical connections or connections providing earthing continuity	CERT CERT CERT	N/A
NIS CERT	Screws used for electrical connections or connections providing earthing continuity screwed into metal	CEFT SEFT SEFT	P

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lause	Requirement + Test	Result - Remark	Verdict	
		Result - Remark	Verdict	
S-OFFI	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	CERT ONIS-CERT ONIS-CERT ONIS	N/A	
	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation	CERT OUTS CERT OUTS CERT OUTS	N/A	
CERT	For screws and nuts; torque-test as specified in table 14	(see appended table)	STRP	
8.2 S	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless	CERT SCEPT SCOPT	CHRP ON	
CERT O	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	CHAIN CHAIN CHAIN	N/A	
S. 4	This requirement does not apply to electrical connect which:	ions in circuits of appliances for	-0-1	
SCER	- 30.2.2 is applicable and that carry a current not exceeding 0,5 A	SERT SERT SERT	N/A	
- CRI	- 30.2.3 is applicable and that carry a current not exceeding 0,2 A	187 187 187 187	N/A	
8.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	at at at	N/A	
S-OFT O	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	othe ouis othe ouis othe ouis	N/A	
15-OC 0	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	in the second second	N/A	
SCERT	Thread-cutting, thread rolling and space threaded so connections providing earthing continuity provided it connection:		CERT_	
~ ~ ~	- in normal use,		N/A	
CER	- during user maintenance,	Setting Setting Setting	N/A	
0	- when replacing a supply cord having a type X attachment, or	one one one	N/A	
CET	- during installation	off coff coff	N/A	
0	At least two screws being used for each connection providing earthing continuity, unless	out of out	N/A	
SCER	the screw forms a thread having a length of at least half the diameter of the screw	SERTI ALESCERT ALESCERT	N/A	

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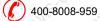




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	IEC 60335-2-41+IEC 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
5 0		0, 0, 0,	0,,
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	OUTS OFFICE OUTS OFFICE OUTS	COLIFIC P
S.S.CHRI	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	Still Still AS	N/A
5 0	if an alternative earthing circuit is provided	0, 0, 0,	N/A
Wis-OFRI C	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	SCHAL OVIS CHAL OVIS CHAL OV	N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SO	LID INSULATION	1 AV
Wist of	Clearances, creepage distances and solid insulation withstand electrical stress	ovision ovision ov	P
WiS-CERI	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), annex J applies	SCHAT WISSCHAT WISSCHAT	N/A
CERT	The microenvironment is pollution degree 1 under type 1 protection	APRIL APRIL APRIL	N/A
WIS CERT O	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3	Steff Steff Steff	N/A
din of	These values apply to functional, basic, supplementary and reinforced insulation	outo outo ou	N/A
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless	(see appended table)	P of
NIS-CE C	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14	SCT. WESCH. WESCH.	N/A
Wis-CERT O	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500 V and above are increased by 0,5 mm and the impulse voltage test is not applicable	OUT OUTS OFFICE OUTS OFFICE OUT	S CHAT P ON
WIS CERT O	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1 (IEC 60335-1:2010/A1:2013)	SCEN ONESCEN ONESCEN ON	N/A
Mis d	Impulse voltage test is not applicable:	one one one	-04
C. SERI	- when the microenvironment is pollution degree 3, or	SERIE SERIE SCHRIT	CEPP
Mis C	- for basic insulation of class 0 and class 01 appliances	ovito ovito ov	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.	$\mathcal{O}_{\underline{\lambda}}, \mathcal{O}_{\underline{\lambda}}, O$	0, 0, 0	v. 0
CCERT	- to appliances intended for use at altitudes exceeding 2 000 m (IEC 60335-1:2010/A1:2013)	offit working working	N/A
112	Appliances are in overvoltage category II	ONIS ONIS OF	P P
CERT	A force of 2 N is applied to bare conductors, other than heating elements	Stating Stating Stating	SEPP
12	A force of 30 N is applied to accessible surfaces	ONIN ONIN ON	P O
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	CHAIN ONIS CHAIN ONIS CHAIN ON	SER P
CERT	The values of table 16 or the impulse voltage test of clause 14 are applicable	(see appended table)	P
1 <sup>15</sup>	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	AL AL AL	N/A
VIS-GC	Lacquered conductors of windings considered to be bare conductors	ON ONE OF OUR	P
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	(see appended table)	Strippe
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage:	(see appended table)	CHÉP
VIS-CERT	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation	OHIS CERT ONIS CERT ON	CHIP O
29.1.4	Clearances for functional insulation are the largest va	alues determined from:	-B
S	- table 16 based on the rated impulse voltage	(see appended table)	S P
-LRI	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	and and and a	N/A
V15-0	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	OVIS OVIS O	N/A
.S. CERT	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless	SERIES SERIES SERIES	N/A
2.	the microenvironment is pollution degree 3, or	0, 0, 0,	PO
SCHRI	the distances can be affected by wear, distortion, movement of the parts or during assembly	offen usoffen usoffen	N/A
Stephine (	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	on on on o	N/A
112	Lacquered conductors of windings considered to be bare conductors	ONIS ONIS OF	PO

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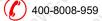




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Clause	Requirement + Test	Result - Remark	Verdict
· · · · · ·	$\frac{2}{2}$ $0_{n}$ $0_{n}$ $0_{n}$ $0_{n}$ $0_{n}$ $0_{n}$	0, 0, 0,	07
CERT	However, clearances at crossover points are not measured	SERIE SERIE SCHIT	SEPP
	Clearance between surfaces of PTC heating elements may be reduced to 1mm	Strip Other Other	N/A
29.1.5	Appliances having higher working voltages than rated insulation are the largest values determined from:	d voltage, clearances for basic	SET_
~	- table 16 based on the rated impulse voltage		Р
is office	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	SET WEST WEST	N/A
CHRI	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	CERI CERI	N/A
NIS-CERT	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation	CERT WISCHERT WISCHERT	N/A
VIS-CERT	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160% of the withstand voltage required for basic insulation	CERT ONIS-CERT OVIS-CERT OVIS	N/A
115 SER	If clearances for basic insulation are selected from clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation	official outs official outs	N/A
IIS-OFFI	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage	CERT ONIS CERT OVIS CERT OVIS	N/A
VIS-OFFRI	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15	CERT OUIS-CERT OUIS-CERT OUIS	N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	(see appended table)	P
R	Pollution degree 2 applies, unless	de de de	N/A
S	- precautions taken to protect the insulation; pollution degree 1	ovision ovision ovi	N/A
SCHAI	- insulation subjected to conductive pollution; pollution degree 3	Steffin section section	SHP P
at a	A force of 2 N is applied to bare conductors, other than heating elements	1. 6	PON
C.C.	A force of 30 N is applied to accessible surfaces		S <sup>V</sup> P

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Clause	Requirement + Test	Result - Remark	Verdict	
WIS-CERT	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system	ON ON ON ON	C <sup>SUPP</sup> O	
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	CIPP .	
Wis-CERT	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 17	CERT OVISCERT OVISCERT OV	N/A	
WIS-CERT	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14	CERT OVISCERT OVISCERT OV	N/A	
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see appended table)	P ON	
CEL	Table 2 of IEC 60664-4, as applicable	Stranger Stranger	N/A	
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	(see appended table)	P	
1.5	Table 2 of IEC 60664-4, as applicable	o with with with	N/A	
29.2.4	Creepage distances of functional insulation not less than specified in table 18	(see appended table)	<b>E</b> FFP	
Wis-CERT	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 18	CERT OVISCERT OVISCERT OV	N/A	
S.CERT	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	CERT SCHAT	N/A	
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	CERT CERT CERT	N/A	
NIS (	Compliance checked:	ovis ovis ov	· - ~	
(A)	- by measurement, in accordance with 29.3.1, or	An An An	N/A	
VIS-Ot	- by an electric strength test in accordance with 29.3.2, or	OF OVISION OVISION OV	N/A	
WIS-CERT	- for insulation, other than single layer internal wiring insulation, by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and	OFFICE OVISCERIO OVISCERIO OV	N/A	

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#### Report No.: OViS202204-002

OV iS-CERT	Page 58 of 72	Report No.: OViS202204	-002
3	IEC 60335-2-41+IEC 6033	0. 0 0	
Clause	Requirement + Test	Result - Remark	Verdict
5 6		0°. 0°. 0°.	07.
WiS-CERT ON	- for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	SCEPTI MISSCEPTI MISSCEPTI MISS	N/A
WIS-CERT OF	- by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or	OFFICE OUTS OFFICE OUTS OFFICE OUTS	N/A
Wis CER OV	- as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz	SETT OVIS-SETT OVIS-SETT OVIS	N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm	Electric control box enclosure: min. thickness 3.29mm	Str P
5° 6	Reinforced insulation have a thickness of at least 2 mm		N/A
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	Star Wiscar Wiscar Wi	N/A
.A.	Supplementary insulation consist of at least 2 layers		N/A
SCE	Reinforced insulation consist of at least 3 layers	ich is chi is chi	N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by		N/A
SCH	the electric strength test of 16.3	of soft soft	N/A
Street of	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out	SERIE SCERE OUT ON	N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19		N/A
30	RESISTANCE TO HEAT AND FIRE		о́ — "з
30.1	External parts of non-metallic material,	0 0 0	Р
CER	parts supporting live parts, and	(13) (13) (13)	К <sup>Р</sup> Р
NIST ON	parts of thermoplastic material providing supplementary or reinforced insulation	owner owner owner	POVI
CERT	sufficiently resistant to heat	SER SER SER	S <sup>E</sup> P
1 <sup>12</sup> 6 <sup>1</sup>	Ball- pressure test according to IEC 60695-10-2	With Miles With	P
WIS-CERT OF	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)	CHAT P
Wis-CERT ON	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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	Page 59 of 72	Report No.: OViS20220	1 001	
IEC 60335-2-41+IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict	
0	2 0, 0, 0, 0, 0,	0, 0, 0,	. 0%	
S-CERT C	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)	CERT OVISCERT OVISCERT OV	N/A	
0.2	Parts of non-metallic material resistant to ignition and spread of fire	Co Nic Co Nic Ol	P	
R	This requirement does not apply to:	A. A. A.	1 AN	
Star C	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	CERT OUS CERT OUS CON OU	N/A	
ST AL	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	VO <sup>201</sup> 10 <sup>211</sup> 0	N/A	
S.C.	Compliance checked by the test of 30.2.1, and in addition:	OVISION OVISION	197 - NI	
R	- for attended appliances, 30.2.2 applies	An An An	N/A	
, Cr	- for unattended appliances, 30.2.3 applies		P.	
5	For appliances for remote operation, 30.2.3 applies	0, 0, 0,	N/A	
, CER	For base material of printed circuit boards, 30.2.4 applies	CHAIN IS CHAINS CHAIN	N/A	
S-CERT C	For submersible pumps if their live parts are completely contained within an enclosure of metal or porcelain and the instructions state that the pump shall be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA, 30.2.1 is applicable. (IEC 60335-2-41)	OT OT OT OT OT	N/A	
5	For other pumps 30.2.3 is applicable. (IEC 60335-2-41)		PO	
0.2.1	Parts of non-metallic material subjected to the glow- wire test of IEC 60695-2-11 at 550 °C	(see appended table)	CHIP N	
C. CERT	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	SHA SSEA	N/A	
in a	the material is classified at least HB40 according to IEC 60695-11-10		N/A	
is Ct	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	Ot OVISICE OVISICE OV	N/A	
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and	CERT OVISCER OVISCER	N/A	
CERT	parts of non-metallic material within a distance of 3 mm of such connections,	SERIE SERIE	N/A	

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ViS-CERT	Page 60 of 72	Report No.: OViS202204	4-002
IEC 60335-2-41+IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
r. C	2. 0, 0, 0, 0, 0,	0, 0, 0,	01
-AS	subjected to the glow-wire test of IEC 60695-2-11	A A A	N/A
	The test severity is:		9 <sup>.01</sup> —
e de la como	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	atter atter	N/A
.5	- 650 °C, for other connections	NIS NIS NIS	N/A
- CRI	Glow-wire applied to an interposed shielding material, if relevant	194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194	N/A
1.5°	The glow-wire test is not carried out on parts of mat glow-wire flammability index according to IEC 6069		3 — J
SCERT	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	Steff Steff Steff	N/A
e c	- 650 °C, for other connections	0, 0, 0,	N/A
R	The glow-wire test is also not carried out on small p	arts. These parts are to:	- CR-
5 <sup>,0</sup> ,	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	of out of ot of	N/A
SCL	- comply with the needle-flame test of annex E, or	Still Still Still Still	N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	TO THE OTHER	N/A
Sich	Glow-wire test not applicable to conditions as specified	Sta Wisch Wisch Wi	N/A
0.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	Steffi Steffi Steffi	SIRP
2	The tests are not applicable to conditions as specified		N/A
0.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	OVIS-CER. OVIS-CER. OVIS-CER. OVIS	P
SCERT	parts of non-metallic material, other than small parts, within a distance of 3 mm,	Steff State Steff	CHP
and a	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	0 <sup>11</sup> 0 <sup>11</sup> 0 <sup>11</sup>	Р
SSE	Glow-wire applied to an interposed shielding material, if relevant	Solo Miscoli Miscoli Mi	N/A
IS-CERT	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	OUTS CERT OUTS CERT OUTS	N/A
80.2.3.2	Parts of non-metallic material supporting connections, and	CHAT LITH LITH	SHPP
in a	parts of non-metallic material within a distance of 3 mm,	ONIC ONIC ON	Р
CET	subjected to glow-wire test of IEC 60695-2-11	142 142 142	S <sup>E</sup> P

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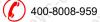


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	Page 61 of 72 IEC 60335-2-41+IEC 6033	5 1	002
lause	Requirement + Test	Result - Remark	Verdict
		Result - Remark	Veruici
1 AL	The test severity is:		<u></u>
of the	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	Star Wilson Wilson Wilson Wilson	P
A.	- 650 °C, for other connections	As As As	N/A
, O	Glow-wire applied to an interposed shielding material, if relevant	ONE ONE ON	
CERT	However, the glow-wire test of 750 °C or 650 °C as a parts of material fulfilling both or either of the followin		N/A
in a second	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	at at at	N/A
Sec. S	- 775 °C, for connections carrying a current exceeding 0,2 A during normal operation	SET MESCHI MESCHI ME	N/A
~	- 675 °C, for other connections		N/A
, CET	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	SET MESCET MESCET	N/A
CERT	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	CHAT CHAT CHAT	N/A
0	- 650 °C, for other connections	1.5 N.S. N.S.	N/A
4	The glow-wire test is also not carried out on small pa	arts. These parts are to:	á
den de	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	SEE ONIS OF ONIS OF ONIS	N/A
S. CERT	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	SER NESCER NESCER	N/A
0	- comply with the needle-flame test of annex E, or	0, 0, 0,	N/A
, CER	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	SER ASSER	N/A
S OFFIC	The consequential needle-flame test of annex E app encroach within the vertical cylinder placed above the and on top of the non-metallic parts supporting curre parts of non-metallic material within a distance of 3 r parts are those:	e centre of the connection zone nt-carrying connections, and	CERT OF
15-CERI C	- 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	CERI WE CERI WE OWE	N/A
S.CEN.	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	CET WISCOTT WISCOTT WIS	N/A
S.CERI C	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	CERT OVISCERT OVISCERT OVIS	N/A
GERI	- small parts for which the needle-flame test of annex E was applied, or	effi effi	N/A

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#### Report No.: OViS202204-002

Clause	IEC 60335-2-41+IEC 6033 Requirement + Test		
2. Oz		Result - Remark	Verdict
~	<u> </u>	0, 0, 0,	0
C. CERT	<ul> <li>small parts for which a material classification of V-0 or V-1 was applied</li> </ul>	CHAIN CHAIN SCHAIL	N/A
Jin di	However, the consequential needle-flame test is no parts, including small parts, within the cylinder that an		
NIS-CEIT ON	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	Str Str Str Str	N/A
- CHA	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A
WIS OW	- 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	CERT CERT OUTS OUTS	N/A
	Base material of printed circuit boards subjected to the needle-flame test of annex E	OVID OVID OVI	N/A
SEL	Test not applicable to conditions as specified	Sthe Sthe Sthe	N/A
31	RESISTANCE TO RUSTING		~_0 <sup>1</sup>
C.CERT	Relevant ferrous parts adequately protected against rusting	SHALL SHALL SHALL	SEP P
21,2 01	Tests specified in part 2 when necessary	ONIN ONIN ON	N/A
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		- Al-
2, 0,	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	out of out of	PO
NIS-CE OV	Compliance is checked by the limits or tests specified in part 2, if relevant	SC NESCE NESCE	N/A
	- undesired conditions requiring system action		N/A
NISCERT OVI NISCERT OVI NISCERT OVI	Store ONSTORE ONSTORE ONSTORE ONSTORE ONSTORE		
	5-CERI OVIS-CERI OVIS-CERI OVIS-CERI OVIS		

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OV iS-CERT	SER SER	Page 63 of 7	2	Report No.:C	DViS202204-0	6
	Power input devia		115	115 JIS	115	N/A
Input deviation of/at:	P rated (W)	P measured (W)	ΔΡ	Required ∆ P	Rema	rk
NIE ONIE		3151 07 51	0115-	1 <sup>15</sup> 0 <sup>15</sup>	01197	1.5°
 Supplementary infor	mation: –					

Current deviation of/at	: I rated (A)	I measured (A)	Δl	Required	Remark
=== 24V	10	8.4	-16%	+15%	Z3PC3-35-24-300
=== 48V	10	9.1	-9%	+15%	Z3PC3.5-47-48-400
==== 72V	10	10.3	+3%	+15%	Z3PC3.5-95-72-750
=== 110V	10	6.9	-31%	+15%	Z3PC7.5-62-110-1100
=== 110V	10	9.9	-1%	+15%	Z3PC3.8-180-110-1500

~~ <del>==</del> 11	00 00	10	6.9	-31%	+15%	Z3PC7.5-6	52-110-1100
==== 11	0V (5	N <sup>(2</sup> 10	9.9	-1%	+15%	Z3PC3.8-1	80-110-1500
Supplementar	y informatic	on: —	A			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
CEL CEL	C.C.C.	C. SET	Str. Str.	CEL	CELL.	Cen Cen	CEI
11.8-1	TABLE: H	leating test(Z	3PC3-35-24-300)	0412	ovis ovis	OVIS	OVP
	Test voltag	je (V)			== 25.5V	==== 22.5V	_
115	Ambient, t	₁ (°C) :		5	22.9	22.9	
× 0,	Ambient, t	2 (°C) :		~	24.0	24.0	
				dT (K)		Max. dT	Г (К)
Thermocouple	locations		25.5	5V =	22.6V		
Capacitor	à d	i di	8.1	and and a second s	8.9	T105-2	5=80
Buzzer		.5	5.7	.5	7.0	For re	ef.
Internal wire fo	or output	0, 0	6.2	02	6.5	50	04
Terminal block	143	, cfth	5.6	E.F.	6.2	60	CHR)
PCB	Nº15	Will of	13.8	Wils'	15.4	120	) VIS
Power cord	( a)		2.9	1	3.0	50	a d
Fransformer	S. OFT	S. Str	21.4	S. Str	23.3	65	S. Oth
nternalwire for	input	ONTO O	8.8	ONIN	9.4	50	ONIN
Water tempera	ature	A. A. A.	40.0°C	1 AN	40.0°C	35-40	°C
			ist ouist			OWIS'	OVISIO
	011					07	
							0
This Test Report is issue							



OV iS-CERT		Page 64	1 of 72	Rep	ort No.:OViS202	2204-002	- 4
11.8-1	TABLE: Heating test, re	sistance me	thod(Z3PC3-	35-24-300)	Wis Wis	NI P	N'S'
à à	Test voltage (V) :		2		= 22.5V	<u>é</u> –	
St Nis	Ambient, t <sub>1</sub> (°C) :		3	WiS-CV	22.9	3 <sup>~</sup>	115.Ct
	Ambient, $t_2$ (°C) :				24.0	<u>,                                    </u>	
Temperature r	ise of winding	R1 (Ω)	R2 (Ω)	ΔΤ (Κ)	Max. ∆ T (K)	Insulation class	WiS-OF
Motor winding		0.205	0.233	34.1	115	R F R	- Á

11.8-2	TABLE: Heating test(Z3PC	3.5-47-48-400)		Str Str	R
OVIS	Test voltage (V)	:	=== 50.9V 👋	=== 45.1V	
and a	Ambient, t <sub>1</sub> (°C) :		21.6	21.6	
, or	Ambient, t <sub>2</sub> (°C) :		22.5	22.5	
Thermocouple	locations	dT (	K)	Max. dT (K)	
mermocoupi		==== 50.9V	=== 45.1V		
Capacitor	Office Office Office	11.9	10.7	T105-25=	80
Buzzer		8.2	7.0	For ref.	ing.
Internal wire f	or output	10.6	9.9	50	
Terminal bloc	lock 8.1		7.2	60	
РСВ		18.9	17.6	120	CHR
Power cord	NIS NIS NIS	4.4	3.4	50	1.15
ransformer		24.9	23.9	65	
nternalwire fo	r input	12.5	12.5	50	CEN
Water temper	ature	40.0°C	40.0°C	35-40°C	113

11.8-2	TABLE: Heating test, re	sistanco mo	thed(72DC3	5 47 48 400)		
11.0-2		Sistance me		0415		- Nior
á á	Test voltage (V) :			a	= 50.9V	<u>_</u>
	Ambient, $t_1$ (°C) :			, S, Str.	21.6	×
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ambient, t <sub>2</sub> (°C) :			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	22.5	
Temperature ri	se of winding	R1 (Ω)	R2 (Ω)	ΔΤ(Κ)	Max. Δ T (K)	Insulation
						class
Motor winding	AN AN	0.370	0.433	42.7	115	É F
Supplementar	ry information: –	.5' .9		.5	.5 .5	.S
01	0, 0, 0	1, 0,	01	03	0, 0,	0 0

浙江欧非检测认证有限公司(OViS) 地址:浙江省台州市开发区东环大道 888 号 4 幢 4 层 旦 www.ovis-lab.com ⊠ info@ovis-lab.com □ info@ovis-lab

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OV iS-CERT		Page 65 of 72	Report I	No.:OViS202204	-002 🔊
11.8-3	TABLE: Heating test(Z3	PC3.5-95-72-750)	Wis wi	o vis	P
~ 0	Test voltage (V)	:	=== 76.4V	==== 67.6V	_
Str St	Ambient, t <sub>1</sub> (°C) :	21.4		21.4	
04/12	Ambient, t <sub>2</sub> (°C) :		22.0	22.0	_
<b>-</b> , ,		dT (	K)	Max. dT	(K)
Thermocouple locations		=== 76.4V	=== 67.6V		
Capacitor		19.6	20.1	T105-25	=80
Buzzer	Collin Collin	19.6	20.7	For re	ef.
Internal wire f	or output	18.6	18.6	50	0112 6
Terminal bloc	K A	16.4	17.3	60	L.R.
PCB	150 150	22.5	21.7	5 120	1.5
Power cord	0, 0, 0,	13.3	11.2	50	0, 0
ransformer	A CER CER	21.3	18.4	65	CERT
nternalwire fo	r input	18.1	21.6	50	J.S
Water temperature			40.0°C 40.0°C		°C 🔍

11.8-3	TABLE: Heating test,	resistance me	thod(Z3PC3.8	5-95-72-750)	0, 0,	O <sup>N</sup> P (
SER SER	Test voltage (V) :		Ś	a st <del>à</del>	= 76.4V	× –
0,115	Ambient, $t_1$ (°C) :			OVIS	21.4	—
effit eff	Ambient, t <sub>2</sub> (°C) :		Ś	A CER	22.0	- 13
Temperature ri	ise of winding	R1 (Ω)	R2 (Ω)	ΔΤ(Κ)	Мах. ∆ Т (К)	Insulation class
Motor winding	a string string	0.457	0.513	30.8	115	E Star
Supplementa	ry information: –	ONUS ONUS	ONIS	Olla	OND OND	Ollo C
					OVIS-CERT OVIS-C	
		OVIS-CERT OVIS			OVIS-CERT OVIS-C	ERI OVIS-CERI
	NISCERI OVISCERI				OVIS-CERT OVIS-C	
and jurisdictional policies	ad by the Company subject to its Conditions o s defined therein. This test report includes all us of any error or omission caused by our neg et time shall constitute your unqualified acce	of the tests requested by you a	nd the results there of base	d upon the information that	at you provided. You have 30 days f	from date of issuance of



OV iS-CERT		0,00,00,00			
Ser - Ser		Page 66 of 72	Report	No.:OViS202204	P
11.8-4	TABLE: Heating test(Z3)         Test voltage (V)		==== 116.6V	=== 103.4V	S S
CAR CA	Ambient, $t_1$ (°C) :		21.7	21.7	
NIS'	Ambient, $t_2$ (°C) :		22.0	22.0	
Thermocouple locations		dT (	dT (K)		(K)
		=== 116.6V	=== 103.4V	-	
Capacitor		27.2	29.6	T105-25=80	
Buzzer	Colling State	23.6	24.2	For re	ef.
Internal wire fo	or output	21.8	24.7	50	01/13 6
Terminal block		22.2	21.8	60	- R
PCB	1.5°	30.8	32.2	120	1:5-01
Power cord	0, 0, 0,	9.9	9.9	50	0, 0
ransformer	i ciffi ciffi	32.8	33.1	65	CERT
nternalwire for	r input	26.6	28.0	50	J'IS'
Water temperation	ature x x	40.0°C	40.0°C	35-40	°C 🔨

TABLE: Heating test, re	sistance me	3.8-180-110-15	ON P		
Test voltage (V) :				x -	
Ambient, t <sub>1</sub> (°C) :			OVIS	21.7	_
Ambient, t <sub>2</sub> (°C) :				22.0	<u>é</u> –
se of winding	R1 (Ω)	R2 (Ω)	ΔΤ(Κ)	Мах. ∆ Т (К)	Insulation class
C.CET C.CET	0.713	0.943	82.4	115	E ST
	Test voltage (V):Ambient, $t_1$ (°C):Ambient, $t_2$ (°C):ise of winding	Test voltage (V):Ambient, $t_1$ (°C):Ambient, $t_2$ (°C):ise of windingR1 ( $\Omega$ )	Test voltage (V):Ambient, $t_1$ (°C):Ambient, $t_2$ (°C):ise of windingR1 ( $\Omega$ )R2 ( $\Omega$ )	Test voltage (V)::Ambient, $t_1$ (°C):Ambient, $t_2$ (°C):ise of windingR1 ( $\Omega$ )R2 ( $\Omega$ ) $\Delta$ T (K)	Ambient, $t_1$ (°C) :21.7Ambient, $t_2$ (°C) :22.0ise of windingR1 ( $\Omega$ )R2 ( $\Omega$ ) $\Delta$ T (K)Max. $\Delta$ T (K)

	Leakage current	5	HIST C.STP
Heating appliances: 1,		25 E/E	
REMARKS	bombined appliances: 1,06 x rated voltage (V):	I (mA)	0.9/76.4/116.6 Max. allowed I (mA
23PC3-35-24-300	L/N and accessible earthed metal enclosure	0.02	3.5
Z3PC3.5-47-48-400	L/N and accessible earthed metal enclosure	0.04	3.5
Z3PC3.5-95-72-750	L/N and accessible earthed metal enclosure	0.07	3.5
ZCPC3.8-180-110-150	0 L/N and accessible earthed metal enclosure	0.09	3.5
Supplementary information	ation:	5	Wish Wish

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OV iS-CER	n de de	Page 67 of 72	Report No.:0	DViS202204-002
13.3	TABLE: El	ectric strength	11º	SP
REMARKS	3	Test voltage applied between:	Voltage (V)	Breakdown (Yes/No)
Z3PC3-35-	-24-300	Live part and accessible earthed metal parts	500	No
Z3PC3.5-4	7-48-400	Live part and accessible earthed metal parts	1000	No Vie
Z3PC3.5-9	5-72-750	Live part and accessible earthed metal parts	1000	No
	180-110-1500	Live part and accessible earthed metal parts	1000	No

14	TABLE: Transien	t overvolta	ges s	WiS'S	1:5	Visio	Visio	N/A
Clearance between:		CI (mm)	Required Cl (mm)	Rated imputive voltage (\		Impulse test voltage (V)		ashover es/No)
Suppleme	ntary information: —	in the	JI JIS	NIS OF	115	115-00	115	VISION

16.2	TABLE: Le	akage current	de la	I CERI	R
Single phase	appliances	: 1.06 x rated voltage .:	====2	5.5/116.6	
Three phase	appliances	1.06 x rated voltage divided by $\sqrt{3}$ :			
REMARKS		Leakage current between	l (mA)	Max. allowe	d I (mA)
Z3PC3-35-24	-300	Live parts and surface of earthed metal parts	0.06	3.5	1,
ZCPC3.8-180	-110-1500	Live parts and surface of earthed metal parts	0.11	3.5	- Fr
Supplementa	ry informatio	on: 🚓	of Wisi	VISIO	VIS'

16.3	TABLE: Di	electric strength	Str. S	chi Cent	P	
REMARKS		Test voltage applied between:	Voltage (V)	Breakdown (Y	es/No)	
Z3PC3-35-2	4-300	Live part and accessible earthed metal parts	1250	No	1 AN	
ZCPC3.8-18	30-110-1500	Live part and accessible earthed metal parts	1250	No	S. St.	
Supplement	ary information	on: 0 0 0	07.	01. 01	0	
chthi c	(P) (P		all a	A ST	CHR'	
21.1 Т	ABLE: Impa	ct resistance	15	Wiss wi	¢Ρ	
Impacts	per surface	Surface tested Impact end	ergy (J)	Comments	)	

21.1	TABLE: Impact	resistance	Wish Wish Wi	NIS NISP	VISION
Impa	cts per surface	Surface tested	Impact energy (J)	Comments	
, CET.	C3C1	Metal enclosure	_ ర్ 1.0 _ ర్	No damage	S. SEIN
0	3 0/10	Electric control box	0 <sup>110</sup> 1.0 0 <sup>11</sup>	No damage	0112 0
Supplem	entary information	à à a -:	AN AN	An An An	- P

28.1 TABLE: Thread	led part torque test	0, 0, 0,	ON ON P
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque ( Nm )
Fixing screw	6.06		2.5
Supplementary information:	- shi shi sh	The state of the s	str str
ONIS ONIS (	Mis Ones Ones	ONLO ONLO ONLO	ONES ONES O
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9.1	TABLE: Clearances	Page 68	<u>9172</u>	Repor	t No.:OViS2022	204-002 P		
07.	Overvoltage category		:	0				
SER S	an and a set		Type of insulation:					
Rated impul voltage (V)		Basic (mm)	Functional (mm)	Supplemen tary (mm)	Reinforced (mm)	Verdict / Remark		
330	0,2* / 0,5 / 0,8**		-, S.C.	15	,s´ <sup>C+</sup> – ,;s´	N/A		
500	0,2* / 0,5 / 0,8**	a, <u>v</u>	<u> </u>	<u> </u>	~	N/A		
800	0,2* / 0,5 / 0,8**		<u> 12. s</u>			N/A		
1 500	0,5 / 0,8** / <u>1,0</u> ***	B1	F1	0, - 0	_01	P		
2 500	1,5 / 2,0***		1 _ 1 f	. S	Stoff- St	N/A		
4 000	3,0 / 3,5***	300 - 030	<u>on</u>	031 0	_031	N/A		
6 000	5,5 / 6,0***	C.C.L.P.	5 <sup>6</sup> - 5 <sup>6</sup>	SER	ct <sup>R1</sup>	N/A		
8 000	8,0 / 8,5***	3 <sup>113</sup> - 0 <sup>113</sup>	A.C.	0413- 0	1/2 - 0/1/2	N/A		
10 000	11,0 / 11,5***	all	Ś _ Ś	-3	<u></u>	N/A		

#### Supplementary information:

\*) For tracks on printed circuit boards if pollution degree 1 and 2

\*\*) For pollution degree 3

\*\*\*) If the construction is affected by wear, distortion, movement of the parts or during assembly

B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

B1: Between motor winding and earthed metal: Cl.>6.6 mm

F1: between P+ and P-:Cl.>2.5mm

REMARKS:As all prototype controllers have the same internal layout, only Z3PC3.8-180-110-1500 is tested. ovis-offi

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29.1 TABLE:	Creepa	age dist	JIS CY	age 69 of 7	C.S.C.	tary and	Report N d reinforce	<i>,</i>	15		2 }` P (
Working voltage (V)		aye alor		eepage dis (mm)	-	tary un				. ~	1
(v)			F	Pollution de	egree						
	1		2			3		Туре	of insu	Ilation	Verdict
		M	aterial g	roup	M	aterial g	roup				
		1		Illa/Illb	1		Illa/IIIb*	B**	S**	R**	
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9				N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		Å		N/A
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8		_	J.	N/A
<u>125</u>	0,28	0,75	1,05	1,5	1,9	2,1	2,4	B1		_	P
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4				N/A
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8			0	N/A
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	, SET		_	N/A
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0		54		N/A
250	1,12	2,5	3,6	5,0	6,4	7,2	8,0		_	8	N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3				N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3				N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6				N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0				N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		C <sup>×</sup>		N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0			04	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	8		/	N/A
>630 and ≤800	1,0	3,2	4,5	6,3	8,0	9,0	10,0	<u> </u>	112		N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0		01		N/A
>800 and ≤1000	2,4	4,0	9,0 5,6	8,0	10,0	11,0	12,5	~		5	N/A N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		-		N/A
>800 and ≤1000	4,8	4,0 8,0	11,2	16,0	20,0	22,0	25,0				N/A
>1000 and ≤1000	3,2	5,0	7,1	10,0	12,5	14,0	16,0				N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0				N/A
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0				N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	4	_	_	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	_	, S		N/A
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0		_	d'	° N/A ₀

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>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	5			o N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		2		N/A
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0		—	S.	N/A
>2000 and ≤2500	7,5	<sup>0</sup> 10,0	14,0	20,0	25,0	28,0	32,0	5			ິ N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		~		N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	—			N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0				N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0				N/A
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	—	_	S	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	4	_		N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	_	di di	_	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0		_	1.	° N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	4		_	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	_	0		N/A
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0		_	01	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	25	_		N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		.5		N/A
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0		_	0,	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	CHR)	_	_	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		1,15		໌ N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0		Γ_	~	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	Ster	_	_	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	_	2110	_	N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0		_	22	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	, CY		_	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		2,	_	N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0		_	R.	N/A

Supplementary information:

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

\*\*) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

B1: Between motor winding and earthed metal: Cr.= 6,6 mm;

R1: Between live part and electric box enclosure: Cr.>10,0 mm

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2 TABLE: Cree	nago die	tanaa	functio	nal insula	sion (	.5	0415	ON P
Working voltage (V)	page uit	stances,	Creepa	ige distant ollution de	ce (mm	)		Verdict / Remar
	1		2			3		
		Ma	aterial gr	oup	M	aterial gr		
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*	
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	0,16	0,56	0,8	×1,1	1,4	1,6	1,8	N/A
<u>125</u>	0,25	0,71	1,0	1,40	1,8 🤇	2,0	<u>2,2</u>	ON BALL
250	0,42	1,0	1,4	2,0	2,5	2,8	<u>3,2</u>	N/A
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	S N/AS
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	ີ 10,0 ູ	11,0	12,5	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A S
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0 0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

Supplementary information:

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

F1: Between L/N terminals on motor winding: Cr. >12.5 mm

30.1 TABL	E: Ball Pre	essure Test of Ther	moplast	ics		ONIO	ONIS	OP	
Allowed impression	n diameter	' (mm):	2.0	CERT	CER	CERT	, StR		
Object/ Part No./ Material Manufacturer/ trademark			Test t	Test temperature (°C)			Impression diameter (mm)		
Terminal block	5.01	and and and	5.01	5 125	Wis.Cr	NIS.C.	1.02	N15.01	
Terminal support	. A			125			0.88		Ś
Supplementary infor	mation:—	SCR WISCH	5,00	N15-CC	NIS CE	N19500	NIS-CE	N15.00	

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0 0	eat and fire - Glow wire tests									
Object/ Part No./	Manufacturer/ trademark	Glow wire test (GWT); (°C)						-		
Material		550	650		7	50	850	Verdict		
			te	ti	te	ti				
X2 Capacitor	is of I south	115 Chr.	11500	10-CX	0	0,00	×	.SP		
Terminal block	1 A 1 A	5°.	0	0	0	0	x	P		
Terminal support	SCEN I SCEN	Sth		<u>-</u> ,50	0_5	0	x	P		
-use	P	6 <sup>21.2</sup>	041	04	0	0	× ×	Р		
Transformer	CER I CER	- SIR	- Sth		0_5	0 cith	x	P		
Object/ Part No./	Manufacturer/ trademark	Glow-wire flammability index (GWFI), °C GWIT), °C					-	Verdict		
Material		550	650	750	850	675	775			
191 - 191		R			- 5	· - A	- K	R		
The test specimen passed the glow wire test (GWT) with no ignition [(te – ti) $\leq$ 2s] (Yes/No):										
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No)										
	passed the test by ?			- ( ( ° –		- / / ~	wn with the	N/A		
Ignition of the specified layer placed underneath the test specimen (Yes/No):										
5 (5)	6 6	.5	.5	.5	.5	.5	.6	15		

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

30.2/30.4	TABLE	Needle- flame tes	t (NF	T) NIST NIST	Wist Wist	OVIS-	P N
Object/ Part No./ Manufactu Material trademark			r/ Duration of application of test flame (ta); (s)		Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
РСВ	CHR.	AR AR	Å	30	No	P 0, P	P

Supplementary information:

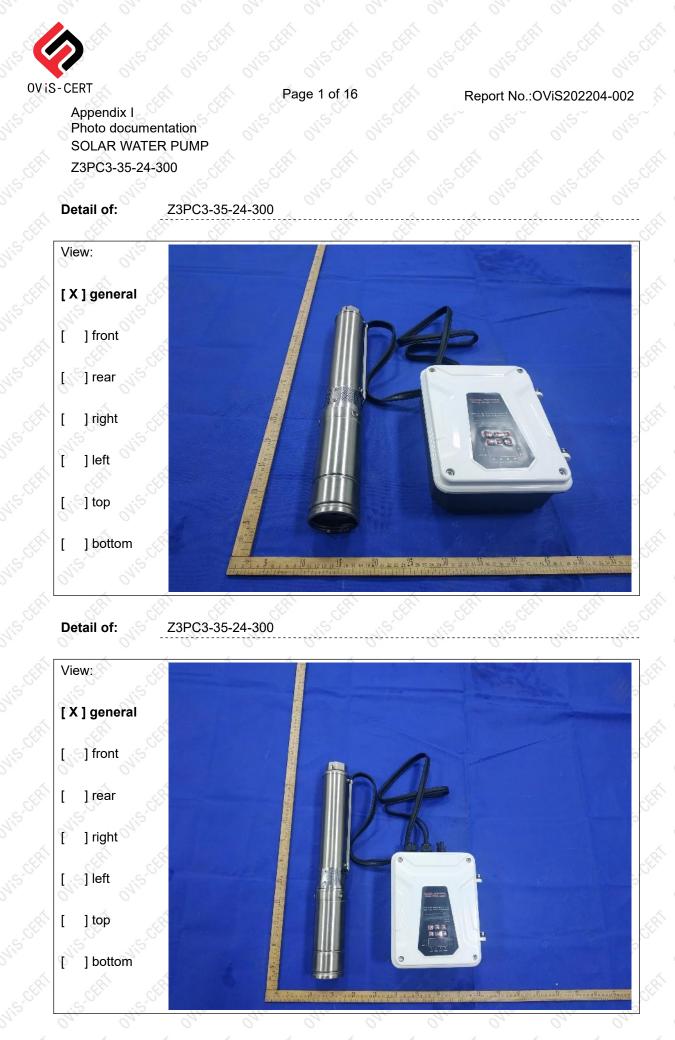
- NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1
- NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0

### --- End of The Report --

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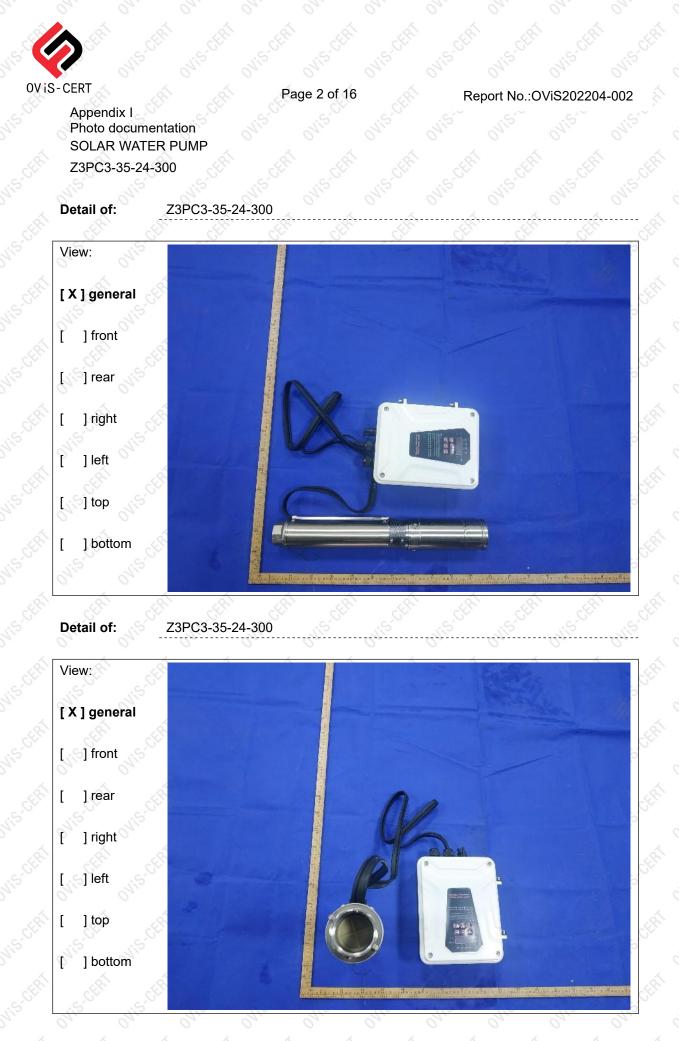
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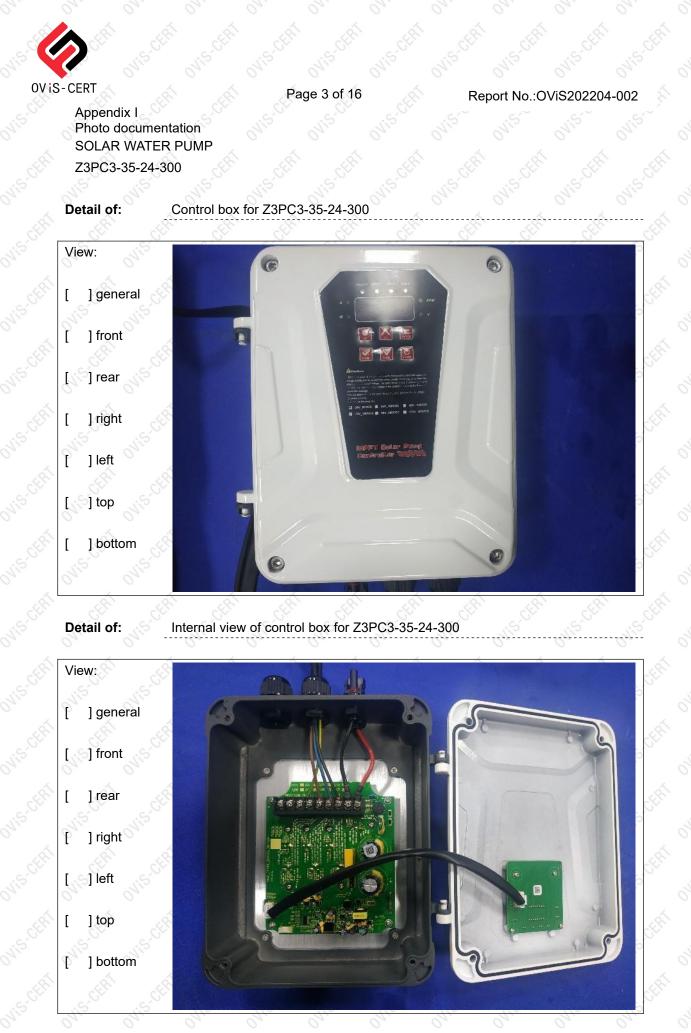


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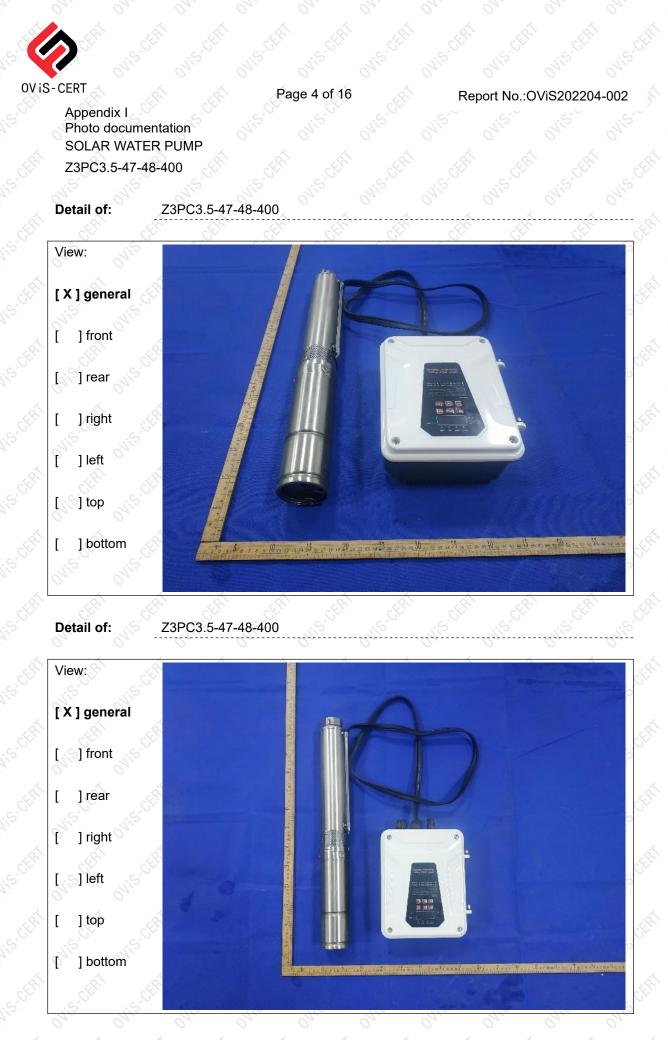
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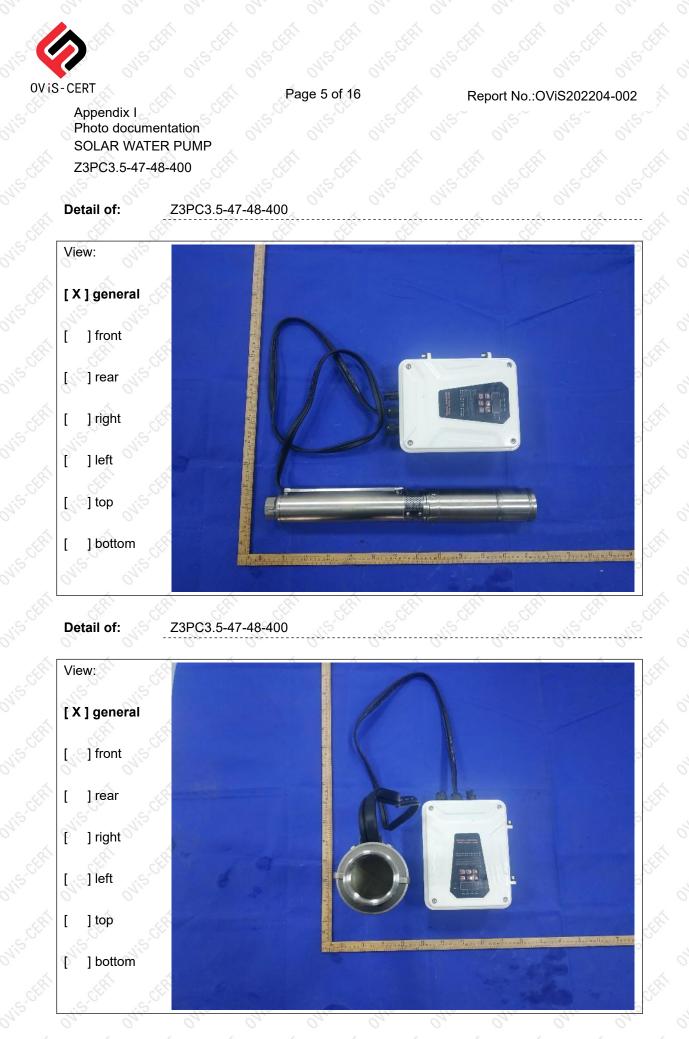


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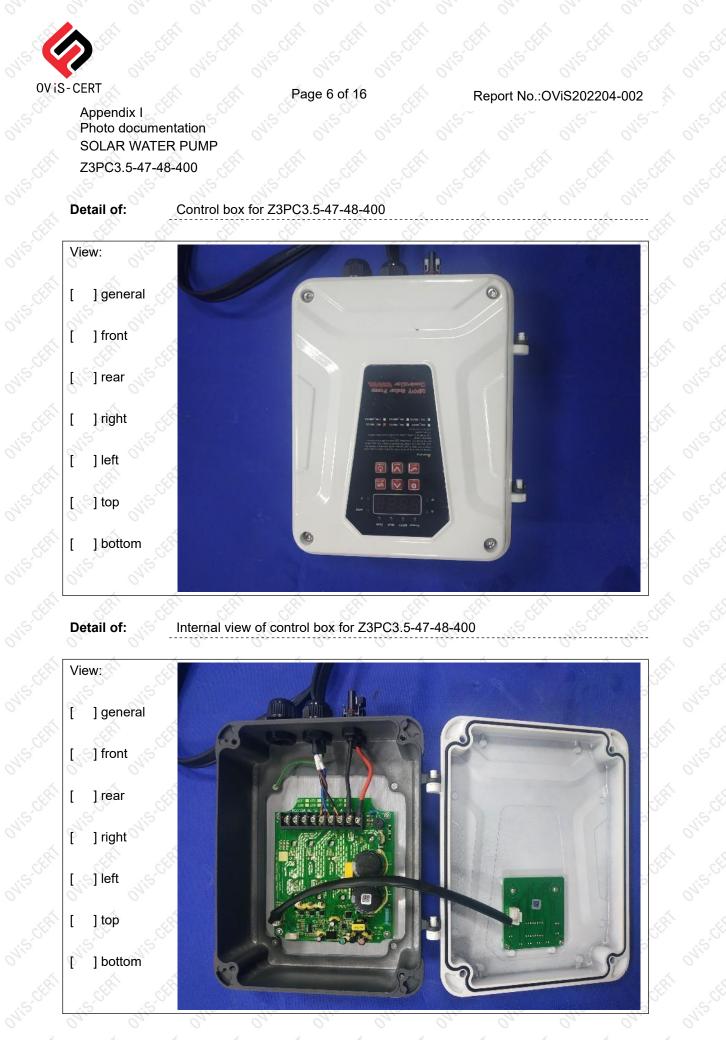
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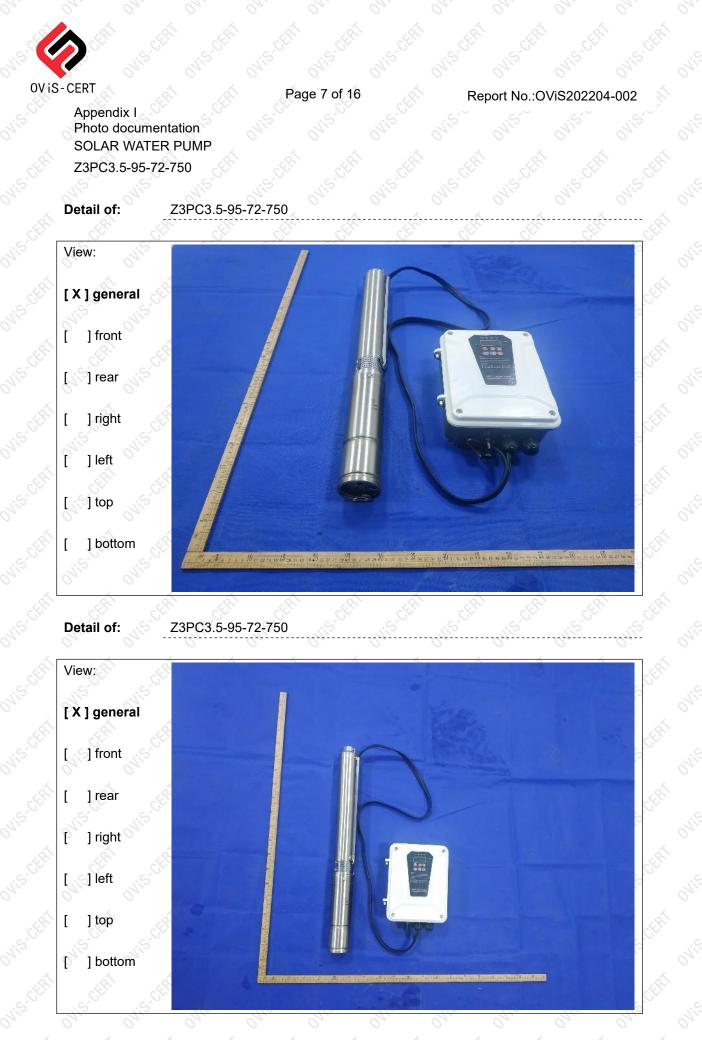


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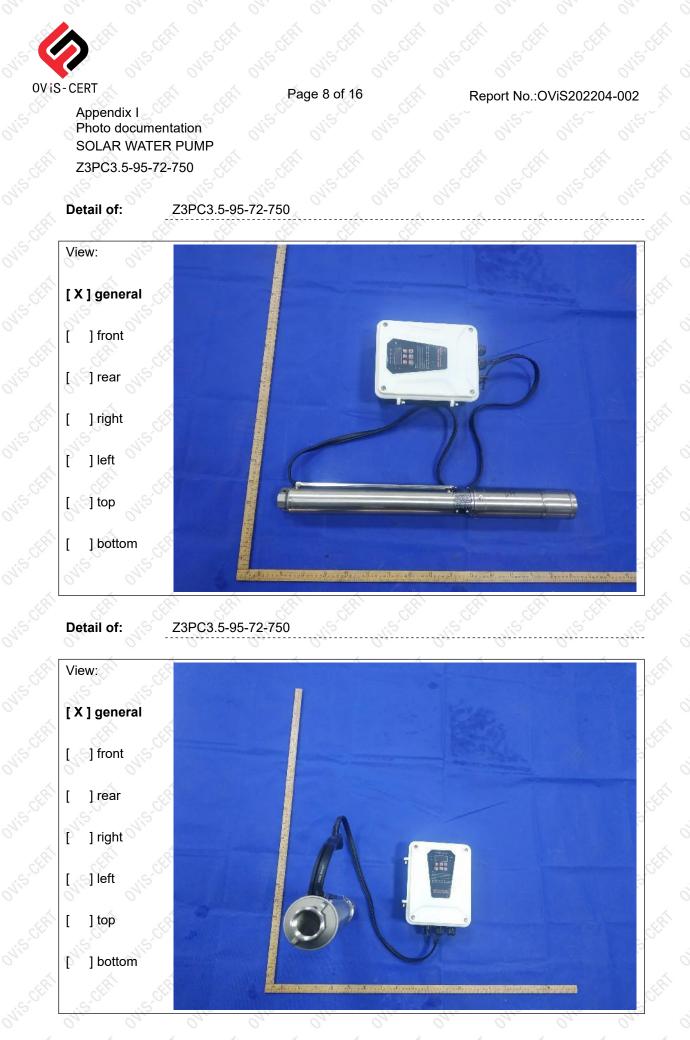




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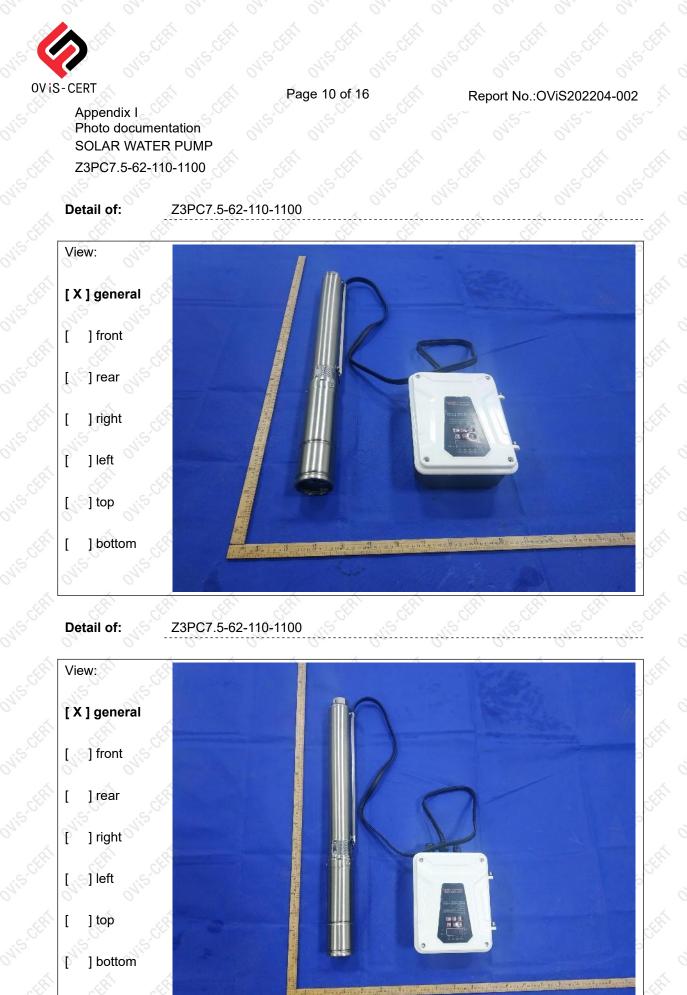


## Detail of:

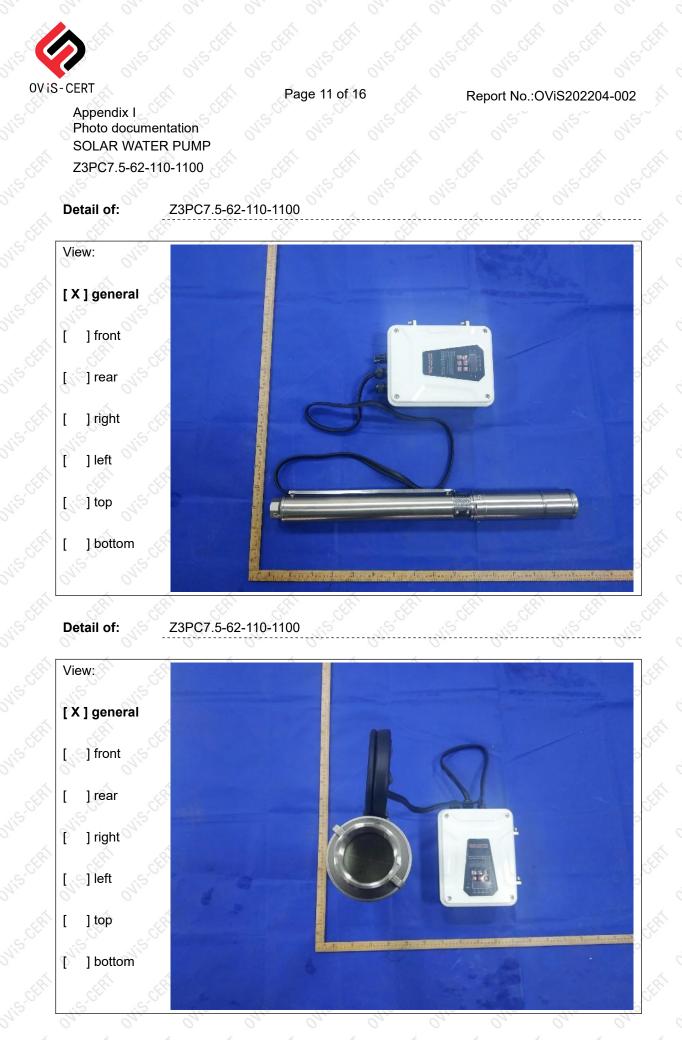
Internal view of control box for Z3PC3.5-95-72-750



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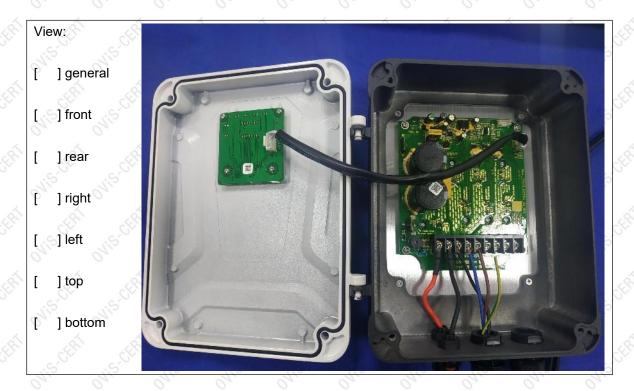


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## Detail of: Internal view of control box for Z3PC7.5-62-110-1100



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Report No.: OViS202204-002

Appendix I Photo documentation SOLAR WATER PUMP Z3PC3.8-180-110-1500



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Detail of:

Z3PC3.8-180-110-1500



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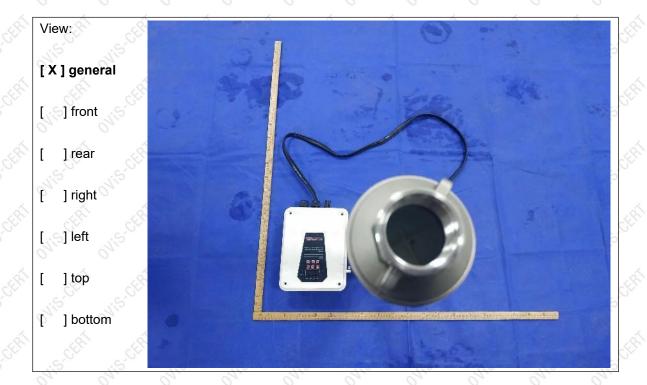
Report No.:OViS202204-002

Appendix I Photo documentation SOLAR WATER PUMP Z3PC3.8-180-110-1500



Detail of:

Z3PC3.8-180-110-1500



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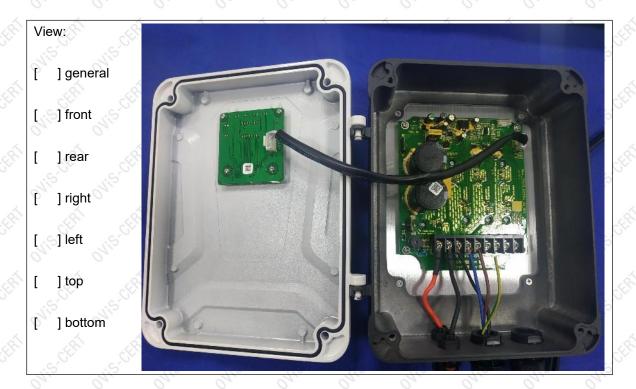
Report No.:OViS202204-002

Appendix I Photo documentation SOLAR WATER PUMP Z3PC3.8-180-110-1500

Control box for Z3PC3.8-180-110-1500 Detail of:



Detail of: Internal view of control box for Z3PC3.8-180-110-1500



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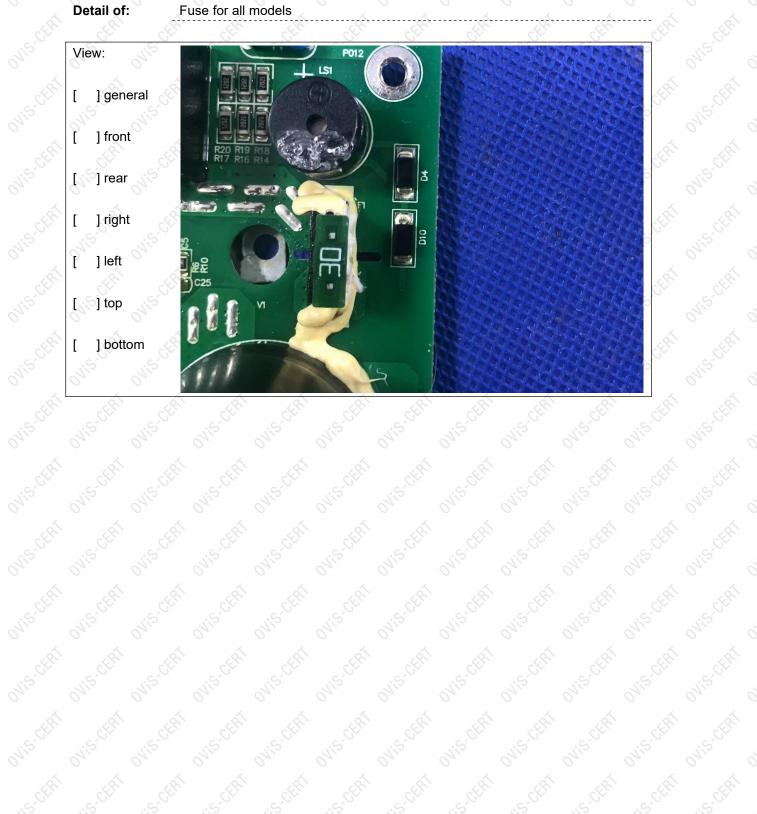
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OVIS-CERT OVIS-CERT Report No.:OViS202204-002 04:55

Parr Appendix I Photo documentation SOLAR WATER PUM Z3PC3.8-180

Detail of:

Fuse for all models



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