

-CERT Page 1 of 81 Report No.: OViSCE2104-032L

# **TEST REPORT**

#### EN 60335-2-41

# Safety of Household and similar electrical appliances Part 2-41: Particular requirements for pumps EN 62233

Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure IEC 62233:2005

Report Number	OViSCE2104-032L
Date of Issue	Apr. 23, 2021
number of pages	15 81 Olis Olis Olis Olis Olis Olis
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	Tianjin Streampumps Industry Co., Ltd.
Address	No.17, Xeda Jimei Ind. Park Xiqing Economic Development Area, Tianjin, China
Test specification:	
Standard	EN 60335-1:2012+A11:2014+A13:2017+A1:2019+ A14:2019+A2:2019, EN 60335-2-41:2003+A1:2004+A2:2010, EN 62233:2008+AC:2008
Test procedure	CE-LVD Directive
Non-standard test method	N/A
Test Report Form No	IEC 60335_2_41
Test Report Form(s) Originator	VDE A A A A A
Master TRF	Dated 2013-04
Test item description	Submersible Pump
Trade Mark	
Manufacturer	Tianjin Streampumps Industry Co., Ltd.
Address	No.17, Xeda Jimei Ind. Park Xiqing Economic Development Area, Tianjin, China
Model/Type reference	SVQ2200(F) (Cover models see models list)
Ratings	See copy of marking plate

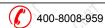
This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. This test report includes all of the 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 or orinsiston caused by our negligence, Provided, however, that such notices 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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Tes	sting procedure and testing loca	ition: And the
	Testing Laboratory:	Zhejiang European African Testing&Certification Co., Ltd.
Tes	sting Location/address	4th Floor, Building 4, No. 888 Donghuan Road, Development Zone, Taizhou City, Zhejiang P.R.China
	Associated Laboratory:	N/A RESTAC
Tes	sting Location/address	
	Tested by(name+signature):	Jason Zhen Jayon Jayon Jayon Zhen
	Approved by(+signature):	Aimee Li
Ø	Testing procedure:TMP	N/A
	Tested by(name+signature):	N/AOVIS OVIS OVIS OVIS OVIS
Ó	Approved by(+signature):	N/A
Tes	sting Location/address	N/A
	Testing procedure:WMT	N/A 15 CH 15
Ą	Tested by(name+signature):	N/A
	Witnessed by(+signature):	N/A JIST DIST DIST DIST
ģ	Approved by(+signature):	N/A SEE SEE SEE SEE
Tes	sting Location/address	N/A OVIS OVIS OVIS OVIS OVIS
	Testing procedure:SMT	N/A CURRENCE CONTROL C
Q	Tested by(name+signature):	N/A
3	Approved by(+signature):	N/A
Q)	Supervised by(+signature).:	N/A
Tes	sting Location/address	N/A
	Testing procedure:RMT	N/A
	Tested by(name+signature):	N/A
	Approved by(+signature):	N/A 1/5-CET 1/5-CET 1/5-CET 1/5-CET 1/5-CET 1/5-CET
	Supervised by(+signature).:	N/A

setter outse 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 ormission 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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### List of Attachments (including a total number of pages in each attachment):

Appendix I – Photo documentation – attachment 2 pages.

#### Summary of testing:

# Tests performed (name of test and test clause):

The provided samples were tested and found to meet the below standards: EN 60335-1:2012+A11:2014+A13:2017 +A1:2019+A14:2019+A2:2019,

EN 60335-2-41:2003+A1:2004+A2:2010, EN 62233:2008+AC:2008

# **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

# **Summary of compliance with National Differences:**

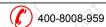
The requirements of national differences of The Europe Union were taken into account.

#### Copy of marking plate:

The artwork below may be only a draft.

Sign of Quality	ER PUM		CE
SVQ2200(F)	220-240 V	лин) 50/60Hz	0
Input Power 3080W	Output Po	wer 2200W	12
H.max 17 m	Q.max 7	00 L/min	3,
Max. liquid temperature 40 °C	I.C.LF	IP X8	<u>∇</u> 5m
Tianjin Streampum No.17, Xeda Jimei Ind. Park Xiqing Eco			3/4

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OV iS-CERT Page 4 of 81	0/1/2	Rej	oort No.:	OVISCE	2104-032	-C)1
Test item particulars:	CELE.	CELL.	- CELL	CELY.	CER.	
Supply connection:	Supply	cord with	a plug	11,5	Nis.	1
Nature of supply	a.c.					
Class of protection against electric shock	c Pal					
Degree of protection against moisture	IPX8					
Type of cord attachment	A O					
Portable appliances	200					
Fixed appliances						
Built-in appliances						
Indoor use	5					
Outdoor use						
Submersible pumps						
Maximum operating depth	5m					
Vertical wet pit pumps						
Sludge pumps						
Pumps for cleaning and other maintenance of	_ 0,					
swimming pools	(E)					
Pumps for outdoor fountains, garden						
ponds and similar places	- 07/					
Shower-boost pumps						
Table fountain pumps						
Switch	9 11/1					
Thermostat	6					
without an OFF position						
Self-resetting thermal cut-out						
Non-self-resetting thermal cut-out	_ \					
Voltage-maintained non-self-resetting thermal cut-out:	(8)					
Contact opening > 3 mm in each pole						
Thermal link						
Electronic circuit	NIO					
with software class	No					
Protective electronic circuit	No O					
with software class	No					
Programmer, timer, switching devices	COVE C					
Remote operation	, H 0/1/2					
Appliances - with supply cord						
- with supply cord fitted with a plug						
Motor with capacitor in auxiliary winding						
Series motors incorporated						
Three-phase motor	( )					
with protective device	5					
Used in vehicles or on board ships or aircraft, additional requirements may be necessary						
Additional requirements are specified by the national health authorities	CENT NIE					
the national authorities responsible for the protection of labour	0.					
OI IQDOUI						

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Po	ssibl	le test	case	verdicts:

<ul> <li>test case does not apply to the test object</li></ul>	- test case	does not	apply to th	e test object	:: N/
--	-------------	----------	-------------	---------------	-------

- test object does not meet the requirement ...... F(ail)

#### Summary of testing:

Date of receipt of test item...... Apr. 12, 2021

Date(s) of performance of test...... Apr. 13, 2021 to Apr. 22, 2021

Sample appearance and function are in

normal condition, yes or no......

Ambient temperature...... 20-25℃

Ambient humidity...... 55-65%

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

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

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

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

Throughout this report a 

comma / 

point is used as the decimal separator.

The samples under test are in good condition.

The test items comply with the requirements of the standard.

Name and address of factory (ies).....: Same as manufacturer

## General product information:

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

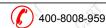
There are 468 models listed in this report, them shared the very similar construction/appearance and most critical components, the used motors for them were from the same manufacturer with very similar manufacturing process and shared the same working principle

Rating labels for other models are similar with nameplate except listed in following table. Model/Type reference and rating table:

All models:I.C.F, 220-240V, 50/60Hz, Tmax 40°C, Max operation depth 5m, IPX8

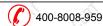
Model	Input Power (W)	Output Power (W)	H.max. (m)	Q.max. (L/min)
SPK530	742	530	<u> </u>	170
SPK530A(F)	742	530	11	250
SPK450	840	600	10	85
SPK450A(F)	840	600	0 11	260
SPK450B(F)	840	600	20	110
SPT500(F)	700	500	12	210
SPT750B(F)	1050	750	18	233

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SPT1100A(F)	1540	1100	19	390	
KBZ21.5	2100	1500	22	450	-15.CV 1.5.CV
KBZ21.5	2100	1500	14.5	670	0, 0,
KBZ21.3	3080	2200	26	550	
KBZ32.2	3080	2200	19	920	11/5° 11/5°
KBZ32.2	5180	3700	34	550	6 6
KBZ33.7	5180	3700	29	920	- cti
KBZ35.7	7700	5500	18.5	1500	elle office
KBZ43.7	7700	5500	34	1250	
KBZ45.7	7700	5500	23	1750	-1/5, J. S. C.
KBZ47.5	10500	7500	40	1400	0
KBZ411	21000	15000	48.5	1400	- CER CER
KBZ415	21000	15000	56	1400	City Only
KBZ67.5	10500	7500	31	2080	
KBZ611	21000	15000	48.5	1400	- 5.01
KBZ615	21000	15000	40	2600	9, 0,
SPSN250(F)	350	250	8	140	- CERT CERT
SPSN750(F)	1050	750	14	250	115 Nis
SPSN1100(F)	1540	1100	16	270	
SV25-10-1.5(F)	2100	1500	17	530	-S.CES.CE.
SV9-10-0.9F	1260	900	12	380	an one
SVX15-7-0.75(F)	1050	750	9	550	
SVX10-12-1.1(F)	1540	1100	14	500	11/5 Nist
SQD1.5-12-0.25L(F)	350	250	14 🔨	83	<u> </u>
SQD1.5-17-0.37L(F)	518	370	18	100	- CER CER
SQD1.5-25-0.55L(F)	770	550	26	83	0200 0412
SQD3-18-0.55L(F)	770	550	20	133	
SQD10-12-0.55L(F)	770	550	18	250	-11.8.Ch
SQD15-7-0.55L(F)	770	550	9	400	~ ~ ~ ~
SQD1.5-32-0.75L(F)	1050	750	33	133	- CER CER
SQD3-24-0.75L(F)	1050	750	25	150	01/2 OHIS
SQD15-10-0.75L(F)	1050	750	12	600	
SQD8-18-0.75L(F)	1050	750	20	250	16,01
SQD10-16-0.75L(F)	1050	750	20	250	0, 0,,
SQD15-10-0.75L(F)	1050	750	12	600	CEPT CEPT
SQD15-7-0.55L(F)	770	550	9	400	Wish Wish
SQD25-6-0.75L(F)	1050	750	11 🔬	583	
SQD30-6-0.75L(F)	1050	750	11,500	750	- CELL CELL
SQD3-30-1.1L(F)	1540	1100	31	166	7/2

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Report No.: OViSCE2104-032L

SCERT OVISA

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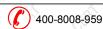
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SQD14-16-1.1L(F)	1540	1100	18	483	
SQD15-14-1.1L(F)	1050	750	18	483	is Wile
SQD15-32-0.75L(F)	1050	750	10	1000	
SQD25-6-0.75L(F)	1050	750	1100	584	
SQD40-6-1.1L(F)	1540	1100	10	1000	
SQX8-18-0.75L	1050	750	20	250	
SQX10-16-0.75L	1050	750	20	250	
SQX30-6-0.75L	1050	750	11 🗶	750	
SQX3-30-1.1L	1540	1100	31	166	
SQX14-16-1.1L	1540	1100	18	483	
SQX15-14-1.1L	1540	1100	18	483	
SQX40-6-1.1L	1540	1100	10	1000	
SQX25-12-1.5L	2100	1500	18	616	
SQX40-9-1.5L	2100	1500	12	1016	
SPC180(F)	252	180	6	80	
SPC250(F)	350	250	8	130	
SPC370(F)	518	370	13	216	
SPC400(F)	560	400	9	216	
SPC550(F)	770	550	10	260	
SPC750(F)	1050	750	12	333	
SPC1100(F)	1540	1100	9	666	
SPC-Y1	1400	1000	25	135	
SPC-Y1.5	2100	1500	28	185	's OA!2
SPC-Y2.2	3080	2200	38	100	
SPC-1.5-Y1F	1400	1000	25	135	
SPC2-Y1.5F	2100	1500	28	185	
SPC-3-Y2.2F	3080	2200	38	100	
SPC2-60/6-1.1(F)	1540	1100	65	120	
SPC3-18-0.55(F)	770	550	21	108	
SPC3-24-0.75(F)	1050	750	26	100	
SPC5-10-0.25(F)	350	250	13	130	
SPC6-32-1.5(F)	2100	1500	34	216	
SPC6-7-0.18(F)	252	180	8.5	166	
SPC7-8-0.25(F)	350	250	9	200	
SPC8-20-1.5	2100	1500	32	300	
SPC9-6-0.45F	630	450	12	200	
SPC10-15-0.9F	1260	900	17	300	
SPC10-10-0.55(F)	770	550	13.5	285	
SPC10-18-1.1S	1540	1100	20	250	

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ViS-CERT	Mis Onis	Page 8 c	of 81	Report	No.: OViSCE2	104-03
SPC10-18-1.1F	1540	1100	20	250		
SPC10-16-0.75(F)	1050	750	19	390	Wis.	115
SPC15-15-1.1(F)	1540	1100	17	475		
SPC25-12/1.5	2100	1500	22	666		
SPC30-6-0.75(F)	1050	750	0 9	780		
SPC37-4-0.75(F)	1050	750	8 .4	650		
SPC40-7-1.1(F)	1540	1100	10	900		
SPC40-9-1.5(F)	2100	1500	13.5	1100		
SPC60-18-5.5	7700	5500	32	300		
SPC6-18-0.75(F)	1050	750	21	265		
SPC6-28/2-1.1(F)	1540	1100	28	250		
SPC6-28/2-1.1A(F)	1540	1100	28	250		
SPC2-40/4-0.75F	1050	750	43	120		
SPC2-50/5-0.9(F)	1260	900	53	125		
SPC2-60/6-1.1(F)	1540	1100	65	120		
SPC5-30/3-1.1(F)	1540	1100	40	166		
SPC5-40/4-1.5(F)	2100	1500	50	166		
SPC5-50/5-2.2(F)	3080	2200	70	166		
SPC3-65/6-2.2(F)	3080	2200	90	100		
SPC6-28/2-1.1A(F)	1540	1100	28	250		
SPC6-39/3-1.5A(F)	2100	1500	70	240	0, 0	
SPC4-60/4-2.2A(F)	3080	2200	42	166		
SVQ180(F)	252	180	7	133	Wis c	
SVQ250(F)	350	250	7.5	150		
SVQ370F	518	370	8	180		
SVQ450AF	630	450	011	260		
SVQ450(F)	630	450	8.5	200		
SVQ750(F)	1050	750	10	300		
SVQ1100(F)	1540	1100	9	333		
SVQ1500(F)	2100	1500	22	270		
SVQ1500A	2100	1500	18	466		
SVQ2200(F)	3080	2200	17 0	700		
SVQ2200A	3080	2200	16	870		
SVD750F	1050	750	7.5	250		
SVD1100(F)	1540	1100	10	270		
SVD1300(F)	1820	1300	12	300		
SVD1800(F)	2520	1800	10	400		
SVD2200(F)	3080	2200	11	600		
SWVSD55(F)	770	550	010	300		

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13-CERT	1, 01,	rage 9 C	11 011	011 1	=port No O viso
SWVSD75(F)	1050	750	12	350	CER. CER.
SWVSD110(F)	1540	1100	13	450	No One
SWVSD55A	770	550	13	300	£ &
SWVSD75A	1050	750	15	334	Sight Sight
SWVS75(F)	1050	750	12	350	110 01/10
SWVS110(F)	1540	1100	12	450	ethi ethi
SWVS75A	1050	750	12	350	1.5
SVSC25-10-2.2	3080	2200	18	483	7 0 4
SVSC35-10-3	4200	3000	20	666	CERI CERI
SWQ10-10-0.75G	1050	750	15	334	1/2 01/2
SWQ12-10-1.1G	1540	1100	17	367	(A) (A)
SWQ15-15-1.5G	2100	1500	23	500	.SSS.
SWQ25-10-1.5G	2100	1500	23	501	011
SWQ9-22-2.2G	3080	2200	22	635	
SWQ25-15-2.2G	3080	2200	24	785	1.5.0
SWQ45-9-2.2G	3080	2200	25	785	7 0,
SWQ20-22-3G	4200	3000	32	635	CER. CER.
SWQ35-15-3G	4200	3000	25	635	712 Mis
SWQ43-13-3G	4200	3000	23	1002	À, À,
SWQ25-22-4G	5600	4000	28	1169	.5. Ct.
SWQ45-17-4G	5600	4000	28	1269.2	9, 0,
SWQ45-20-5.5G	7700	5500	31	1503	CERT CERT
SWQ65-15-5.5G	7700	5500	32	1744	Ne Mie
SWQ20-40-7.5G	10500	7500	49	1002	
SWQ45-22-7.5(F)	10500	7500	32	1666	C. CELL
SWQ45-25-7.5G	10500	7500	32	1670	1200 01/2
SWQ100-15-7.5G	10500	7500	34	2505	LER LER
SWQ10-10-0.75T	1050	750	14	334	15
SWQ12-10-1.1T	1540	1100	16	400	, O"
SWQ15-15-1.5T	2100	1500	21	600	CER CER
SWQ25-15-2.2G	3080	2200	22	935	15 Nis
SWQ35-15-3T	4200	3000	25	1169	\$ . A
SWQ45-17-4T	4200	3000	27	1453	- Ct
SWQD6-12-0.55(F)	770	550	14	267	The Office
SWQD6-16-0.75(F)	1050	750	18	367	repti repti
SWQD10-10-0.75(F)	1050	750	18	367	115,0
SWQD15-9-1.1(F)	1540	1100	14	400	0,
SWQD7-15-1.1(F)	1540	1100	18	367	CER, CER,
SWQ6-16-0.75	1050	750	14	267	1,5

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	SWQ10-10-0.75	1050		16	267
		C' C'	750		2,0
	SWQ7-15-1.1	1540	1100	18	367
5	SWQ18-15-1.5	2100	1500	20	700
	SWQ25-7-1.5	2100	1500	14	635
4	SWQ9-22-2.2	3080	2200	26	534
<u>}</u>	SWQ25-15-2.2	3080	2200	19	885
	SWQ42-9-2.2	3080	2200	18	868
á	SWQ15-30-3	4200	3000	34	567
2	SWQ25-20-3	4200	3000	25	768
	SWQ43-13-3	4200	3000	18	1453
Ś	SWQ50-10-3	4200	3000	19	1453
	SWQ40-15-4	5600	4000	22	1536
,	SWQ60-10-4	5600	4000	19	1586.5
S. C.	SWQ15-40-5.5	7700	5500	25	735
	SWQ30-30-5.5	7700	5500	37	701
	SWQ65-15-5.5	7700	5500	26	1937
	SWQ65-20-7.5	10500	7500	27	2338
	SWQ80-15-7.5	10500	7500	21	2488
S.	SWQ100-10-7.5	15400	11000	20	2388
	SWQ100-25-11	5 15400	11000	29	2923
X	SWQ130-15-11	15400	11000	22	5511
J.	SWQ150-13-11	15400	11000	18	5344
	SWQ180-11-11	15400	11000	20	5010
<u> </u>	SWQ300-7-11	15400	11000	13	7348
500	SWQ360-6-11	15400	11000	10	9018
	SWQ100-30-15	21000	15000	33	3173
À	SWQ150-17-15	21000	15000	25	5845
~	SWQ180-15-15	21000	15000	23	5344
-	SWQ250-11-15	21000	15000	20	5678
Ż	SWQ400-7-15	25900	18500	14	10354
	SWQ100-35-18.5	25900	18500	37	3740
3	SWQ180-20-18.5	25900	18500	28	6680
5	X	CA, (	X, X,	22	CA.
	SWQ250-15-18.5	25900	18500	41.	6680
Ó	SWQ350-10-18.5	30800	22000	17	8684
<b>\</b>	SWQ100-40-22	30800	22000	44	4158
	SWQ130-30-22	30800	22000	35	5344
Á	SWQ180-25-22	30800	22000	32	5678
	SWQ250-18-22	30800	22000	27	7515
	SWQ400-10-22	30800	22000	18	10521

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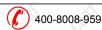
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SWQ18-15-1.5(F)	2100	1500	20	684	
SVP180(F)	252	180	7	133	alisio alisio alisio
SVP250(F)	350	250	8.5	150	7 7 7
SVP370(F)	518	370	7.50	110	CER, CER, CER,
SPP2.5-26/3-0.55F	770	550	32	95	9/12 ON13 ON13
SPP2-5.5-0.18F	252	180	6.5	110	- A A A
SPP2-4.5-0.1	140	100	6	70	115,00
SPP100(F)	140	100	6	50	0, 0, 0,
SPP120	168	120	6	50	Str Str Str
SPP250(F)	350	250	6	65	Wis Wis Wis
SPP370B	518	370	7 🐼	130	A A A
SPP250A(F)	350	250	6	65	
SPP370A(F)	518	370	7	130	0, 0, 0,
SPP370(F)	518	370	7 (1)	130	
PVX10	770	550	7.3	300	Nisio Nisio Nisio
PVX10T	770	550	7.3	300	2 0 × 0
PVX10-1(F)	770	550	7.3	350	- CELL CELL CELL
PVX10-1T(F)	770	550	7.3	350	0 Nr. 0 Niz 0 Niz
PVX12-1(F)	1050	750	9.5	350	
PVX12-1T(F)	5 1050	750	9.5	350	115,00
PCMD-12S(F)	770	550	12	300	0 0, 0,
PCMD-12T(F)	770	550	12	300	CERT CERT CERT
PCMD-14S(F)	1050	750	14	300	ONE ONES ONES
PCMD-14T(F)	1050	750	14	300	
PCMD-17S	1540	1100	17	350	es de les des
PCMD-17T(F)	1540	1100	17	350	03, 01, 01,
PCMD-20S(F)	2100	1500	14.1	400	CHÝ CHÝ CHÝ
PCMD-20T(F)	2100	1500	14.1	400	Wist Wist Wist
PCMD-14S	1050	750	14	300	
PCMD-14T	1050	750	14	300	a chiral a chiral a chiral
75TMP-2.15	210	150	3.2	471	and anis
75TMP-2.25	350	250	3.2	471	etti etti etti
100TMP-2.4	560 5	400	3.2	661	1.5.0
50TPS(F)-2.12	168	120	4.5	200	0, 0, 0,
50TPS(F)-2.15	210	150	5.5	250	CERT CERT CERT
50TPS(F)-2.4	560	400	9.6	310	West Miss Miss
SVS700F	98	70	10	380	
SVSP1100	1540	1100	28	233	Sight Sight Sight

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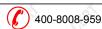
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SNQ200 SNQ250 SPA200 SPA250 SPA350 SPA400 SPA500 SPA550 SPA750 SPA900 SPB250 SPB400 SPB500 SPB500	280 350 280 350 490 560 700 770 1050 1260 350 560 700 770	200 250 200 250 350 400 500 550 750 900 250 400 500 550	5.5 6 5.5 6 6.5 7 7.5 8 9 9.5 4.5 5	58 67 58 83 100 116 145 158 183 200 100 125	SCERT ONS.	ight ouis co
SNQ250 SPA200 SPA250 SPA350 SPA400 SPA500 SPA500 SPA550 SPA750 SPA900 SPB250 SPB400 SPB550 SPB550	280 350 490 560 700 770 1050 1260 350 560 700 770	200 250 350 400 500 550 750 900 250 400 500	5.5 6 6.5 7 7.5 8 9 9.5 4.5 5	58 83 100 116 145 158 183 200 100 125	SCERT OUS COLEREN	SERT ONES CO
SPA250 SPA350 SPA400 SPA500 SPA550 SPA750 SPA900 SPB250 SPB400 SPB550 SPB550	350 490 560 700 770 1050 1260 350 560 700 770	250 350 400 500 550 750 900 250 400 500	6 6.5 7 7.5 8 9 9.5 4.5 5	83 100 116 145 158 183 200 100 125	S.CERT ONS.C	
SPA350 SPA400 SPA500 SPA550 SPA750 SPA900 SPB250 SPB400 SPB500 SPB550	490 560 700 770 1050 1260 350 560 700 770	350 400 500 550 750 900 250 400 500	6.5 7 7.5 8 9 9.5 4.5 5	100 116 145 158 183 200 100 125	SCERT OUS.	
SPA400 SPA500 SPA550 SPA750 SPA900 SPB250 SPB400 SPB500 SPB550	560 700 770 1050 1260 350 560 700 770	400 500 550 750 900 250 400 500	7 7.5 8 9 9.5 4.5	116 145 158 183 200 100 125	SCERT OUS.	
SPA500 SPA550 SPA750 SPA900 SPB250 SPB400 SPB500 SPB550	700 770 1050 1260 350 560 700 770	500 550 750 900 250 400 500	7.5 8 9 9.5 4.5 5	145 158 183 200 100 125	SCHRI OUS	
SPA550 SPA750 SPA900 SPB250 SPB400 SPB500 SPB550	770 1050 1260 350 560 700 770	550 750 900 250 400 500	8 9 9.5 4.5 5	158 183 200 100 125	schi onst	
SPA750 SPA900 SPB250 SPB400 SPB500 SPB550	1050 1260 350 560 700 770	750 900 250 400 500	9 9.5 4.5 5	183 200 100 125	SCERT ONS.	
SPA900 SPB250 SPB400 SPB500 SPB550	1260 350 560 700 770	900 250 400 500	9.5 4.5 5	200 100 125	s stri	
SPB250 SPB400 SPB500 SPB550	350 560 700 770	250 400 500	4.5	100 125	S Olis	
SPB400 SPB500 SPB550	560 700 770	400 500	.5	125	CERT C	
SPB500 SPB550	700 770	500	410	412	CV C	
SPB550	770	Α	6	150	5 .5	
	Juy Ju	550		150	, 01,	
, , , , , , , , , , , , , , , , , , ,	2	V 000 CX	7 (1)	175	CEPT C	
SPB650	910	650	7.5	190	5" 115"	
SPB750	1050	750	8	225	~	
SPB900	1260	900	9	250	CELL CE	
SPB1100	1540	1100	9.5	260	12 01/12	
SGP250	350	<u> 250</u>	6	80	- (A)	
SGP400	560	400	6.5	116	S'C' 115'	
SGP500	700	500	6	150	0,	
SGPS500	700	500	6	150	Stern S	
SGP550	770	550	7.5	158	12 01/12	
SGP750	1050	750	8.5	180		
SGP900	1260	900	9	208	STEEL STEEL	
SGW400	560	400	5	125	01/1	
SGW550	770	550	7 (1)	175	citizi.	
SGW750	1050	750	8	225	8° 11'8'	
SGW900	1260	900	9	250	~	
SGW1100	1540	1100	9.5	260	C.CEIN C.S	
GW400N-1	560	400	5	125	is Ohis	
GW550N-1	770	550	7 (4)	175	ERI .	
SGW750N-1	1050	750	8	225	5,00	
GW900N-1	1260	900	9	250	0,	
GW1100N-1	1540	1100	9.5	260	CERT	
GW400N-2	560	400	5	125	E Wille	
GW550N-2	770	550	7 🔬	175	á	

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/13-CERT	2, 0,	1 age 13	0101	011,	Treport No.: O vioc
SGW1100N-2	1540	1100	9.5	260	CER. CER.
SGW400-P	560	400	5	125	01/12 01/12
SGW550-P	770	550	7	175	
SGW750-P	1050	750	8 00	225	Sicht Sch
SGW900-P	1260	900	9	250	9/10 01/10
SGW1100-P	1540	1100	9.5	260	THE THE
SPA200N	280	200	5.5	58	15:0
SPA250N	350	250	6	83	-
SPA350N	490	350	6.5	100	Ster. Ster.
SPA400N	560	400	N7	116	01/12 01/12
SPA500N	700	500	7.5	145	(A) (A)
SPA550N	5 770	550	8	158	
SPA750N	1050	750	9	183	04, 04,
SPA900N	1260	900	9.5	200	CHÁI CHÁI
SPA1100N	1540	1100	9.5	200	15'D 115'D
SPB400N	560	400	5	125	0.
SPB550N	770	550	7.00	175	CELL. CELL.
SPB750N	1050	750	8	225	9/12 Only
SPB900N	1260	900	9 .61	250	(A) (A)
SPB1100N	1540	1100	9.5	260	15.0
SGW400N	560	400	5	125	0, 0,
SGW550N	770	550	7 (1)	175	CERT CERT
SGW750N	1050	750	8	225	Wis Wis
SGW900N	1260	900	9 🔬	250	6 6
SGW1100N	1540	1100	9.5	260	- CEL CEL
SPW400N	560	400	5	125	Office Office
SPW550N	770	550	7 4	175	CERT CERT
SPW750N	1050	750	8	225	W.S. W. S. C.
SPW900N	1260	900	9	250	-
SPW1100N	1540	1100	9.5	260	Stell, Stell,
SPW400	560	400	5	125	01/2 O1/12
SPW550	770	550	7 (8)	175	
SPW750	1050	750	8	225	- CV
SPW900	1260	900	9	250	0, 0,
SPW1100	1540	1100	9.5	260	CERT CERT
SPWS400	560	400	5	125	Nisio Nisio
SPWS550	770	550	7 4	175	
SPWS650	910	650	7.5	190	CER. CER.
SPWS750	1050	750	8	225	11/2 1/12

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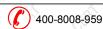
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	1 4804	× 040	6 05/8	040	
SPWS810	1134	810	8.5	240	
SPWS900	1260	900	9	250	01, 01, 01,
SPWS1100	1540	1100	9.5	260	
SPU400	560	400	7	125	115° 115° 115°
SPU550	770	550	Z Z	175	
SPU750	1050	750	8 (1)	208	
SPU900	1260	900	8.5	300	Olys Olys Olys
SPU1100	1540	1100	9.5	333	
SPM250	350	250	5 (*)	125	
SPM400	560	400	5	125	0, 0, 0,
SPM500	700	500	7	175	- CERT CERT C
SPM750	1050	750	8	208	The William Miles
SPM900	1260	900	9	230	
SPM1100	1540	1100	9.5	250	
SSM400	560	400	5	125	alle one one
SSM550	770	550	7	175	
SSM750	1050	750	8	208	Weil Wish Wish
SSM900	1260	900	9	230	0, 0,
SSM1100	1540	1100	9.5	250	- cth. cth.
SQ250AN	350	250	6	80	The Only Only
SQ400AN	560	400	6.5	116	
SQ550AN	770	550	7.5	140	
SQ750AN	1050	750	8.5	175	0, 0, 0,
SQ900AN	1260	900	9	190	
SQ1100AN	1540	1100	9.5	208	The Missis Missis
SQ2501A	350	250	5.5	100	
SQ4001A	560	400	7.5	116	
SQ5001A	700	500	8	116	on one one
SQ5501A	770	550	8	180	- ceri ceri
SQ7501A	1050	750	8.5	208	-1/8,0 -1/8,0 1/8,0
SQ4001B	560	400	5	130	0 0 0
SQ5501B	770	550	6.5	168	- cth cth
SQ7501B	1050	750	7.5	216	01/12 O1/12 O1/12
SQ9001B	1260	900	7.5	216	
SQ45013	630	450	5 (5)	130	
SQ250 SQ400	350 560	250 400	5.5 7.5	100 116	01, 01, 01,

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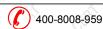
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SQ11001A	1540	1100	9.5	208	CERT CERT
SQ11001B	1540	1100	7.5	216	Wis Wis
SKQ30HM	1260	900	30	80	
SKQ35HM	1540	1100	35	90	C.CET
SKQ90015	1260	900	30	80	01/12
SNR350-1	490	350	12	40	· Left Left
SNR350-2	490	350	12	40	1,6,0
SPA250S	350	250	6	90	0
SPA400S	560	400	7.5	120	Sept. Sept.
SPA550S	770	550	8.5	190	01/2 01/2
SPA750S	1050	750	9.5	210	· (4)
SPA900S	1260	900	10	250	15.0th
SPB400S	560	400	5	125	04, 04,
SPB550S	770	550	7 4	175	CERT CERT
SPB750S	1050	750	8	208	11.5° 11.5°
SPB900S	1260	900	8.5	230	
SPB1100S	1540	1100	9.50	258	Coth Coth
SPA250SD	350	250	015	75	01/10 04/10
SPA400SD	560	<u>400</u>	5.5	80	
SQ110035HM	5 1540	1100	35	90	1,5,0, 1,5,0,
SQ30HM	1260	900	30	80	0 0,
SQ35HM	1540	1100	35	90	Str. Str
SHS1000-IN	1400	1000	30	90	01/2 Wig
SHS1200 -IN	1680	1200	40 🔬	100	
SHP1000-IN	1400	1000	30	90	SCOTT SCOTT
SHP1200 -IN	1680	1200	40	100	Office Office
SHP1000	1400	(1000	30	90	CERT CE
SHP1200	1680	1200	40	100	Wish Wish
SHO1000	1400	1000	30	90	
SHO1200	1680	1200	40	100	Carre Carre
2SP	252	180	30	o <sup>1117</sup> 16	9/15 ON12
2.5SP	252	Á 180	33 💉	40	
3SQ3	5 350	250	30	50	118:00
3SP(T)2	252	180	35	45	0, 0,
3SP(T)3	350	250	32	60	. City, City
3SP(T)4	350	250	23	90	Wis Mis
3SP2-15B	518	370	65	45	
3SP2-21B	770	550	91	45	S.CET
3SP2-27B	1050	750	117	45	Mrs. Miss

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 ormission 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. c.CERT



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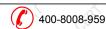
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3SP2-38B	1540	1100	164	45	CEPT CE
3SP2.5-11B	518	370	44	60	115° 115°
3SP2.5-16B	770	550	64	60	
3SP2.5-21B	1050	750	84	60	CER CE
3SP2.5-26B	1288	920	104	60	01/2 01/12
3SP2.5-37B	2100	1500	148	60	activity of
3SPC2-15	770	550	65	45	1/5,01
3SPC2-21	770	550	91	45	0, 0,
3SPC2-33	1540	1100	143	45	CERT CE
3SPC2-21B	1050	750	91	45	04/2 04/2
3SPC2-33B	1540	1100	143	45	- A
3.5SP(T)2	350	250	47	55	
3.5SP(T)3	350	250	33	80	0, 0,
3.5SP(T)4	518	370	40	100	citi
3.5SP(T)6	518	370	27	140	W. S. W. W. S. D.
4SPC4-10	1050	750	72	80	
4SPC4-13	1288	920	93	80	a string a string
4SP(T)2	350	250	49	55	Office Office
4SP(T)3	350	250	36	80	agri d
4SP(T)4	518	370	44	100	115.0
4SP(T)6	518	370	35	140	0
4SP(T)8	770	550	32	180	CER, CE
4SP(T)10	1050	750	31	240	ONES ONES
4SP(T)12	1050	750	25	270	and the
5SP(T)10	5 1540	1100	53	240	. S.
5SP(T)15	2100	1500	55	320	00, 00,
5SP(T)22	3080	2200	43	450	CERÎ CÊ
5SP(T)30	3080	2200	30	450	Wisin
6SP(T)15	3080	2200	52	350	
6SP(T)25	3080	2200	39	550	_ cft cf
6SP(T)35	4200	3000	39	750	oh ohis
6SP(T)45	5600	4000	38	1000	egi e
4SG(T)2	518	370	36	55	1,8,0
4SG(T)3	518	370	39	70	0.
4SG(T)5	518	370	25	110	CER' CE
4SG(T)8	1050	750	30	100	01/2 O1/2
4SG(T)14	1820	1300	28	300	- P
6CS(S)17	3080	2200	43	400	, S . S . S
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ERI	Mr. On	Page 17	0101	011.	Report No., OVISCE2104-
6CS(S)46	5600	4000	41	1100	offi offi
6CS(S)60	7700	5500	42	1300	Vis Wis Mis
8CS77	10500	7500	40	1600	
8CS95	10500	7500	32	2000	active active acti
6SR(T)18	3080	2200	60	450	His Only Only
6SR(T)30	4200	3000	45	667	cepti cepti ce
6SR(T)45	5600	4000	43	1000	150 1150 1150
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SCM5	1288	920	64	Jii 100 6	1/2 1/1/2 1/1/2
SCM6	1540	1100	77	100	
SCM8	s 2100 s	1500	102	100	
SCM7A	1820	1300	89	100	2, 01, 01,
SCM8A	2100	1500	102	100	SERIO SERIO SE
SCM4	1050	750	51	100	115° 115° 115°
5SM208	1540	1100	87.5	75	
3SKM75	770	550	39	35	Cotting of the Cottin
3SKM100	1050	750	55	35	Ary Only
4SKM100	1050	750	58	45	aghi aghi ag
4SKM150	1540	1100	100	45	115,01
4SKM200	2100	1500	110	45	0, 0,
3SNK(M)	1050	750	55	35	Stiffs Stiffs St
4SNK(M)	1050	750	58	45	Me Oniz Oniz
SQGDA	518	370	80	30	
3SQGD	518	370	84	20	
4SQGD	518	370	95	30	3, 01, 01,
SVPM180	252	180	44	14	CERT CERT CE
SVPM280	392	280	70	18	18' 11:5' 11:5'
SVPM350	490	350	70	19	
SVPM350-2	490	350	72	20	citing citing
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WL600A	840	600	9.5	150	. do . do .

S.CERT OVIS-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 in notify us of any error or omission caused by your 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.

新江歐非倫測认证有限公司(OVIS)

地址:新江省台州市开发区东环大道 888 号 4 幢 4 层 量 www.ovis-lab.com 図 info@ovis lab.com 図 info@ovi

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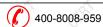


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~		EN 60335-2	2-41+ EN 60335-	-1	
Clause	Requirement + Test			Result - Remark	Verdict

5	GENERAL CONDITIONS FOR THE TESTS		_
01/15	Tests performed according to cl. 5, e.g. nature of supply, sequence of testing, etc.	E Nie Nie	Po
6	CLASSIFICATION		_
6.1	Protection against electric shock: Class 0, 0I, I, II, III	Class I 15	Р
EN 60335-2-4	persons are in the pool, shall be class III with a rated voltage not exceeding 12 V.	S. S. EKKI NIS SEKKI	N/A
iki o	Table fountain pumps for indoor use may also be class II as long as their rated power input does not exceed 25 W.	CERT CERT	N/A
07/12	Portable pumps for cleaning and other maintenance of swimming pools shall be class I or class III		N/A
6.2	Protection against harmful ingress of water	IPX8	P
EN 60335-2-4	Submersible pumps shall be IPX8.	13 01/2 01/2 01	N/A
7	MARKING AND INSTRUCTIONS		_
7.1 <sub>(1)</sub> (5	Rated voltage or voltage range (V)	220-240	Po
R	Nature of supply:		N/A
1,15	Rated frequency (Hz):	50/60Hz	P ∖
ęń.	Rated power input (W)::	3080W	P
Ç	Rated current (A)	2.g. 1.2.g. 1.2.g.	N/A
ki 0,	Manufacturer's or responsible vendor's name, trademark or identification mark		R
	Model or type reference	SVQ2200(F)	5 P
á	Symbol 5172 of IEC 60417, for Class II appliances		N/A
() (5)	IP number, other than IPX0	IPX8	S <sup>OU</sup> P
EN60335-2-4	Pumps having a rated power input exceeding 50W shall be marked with:	Pass muster	P
	- the minimum total head, in metres	Significant Signif	N/A
V 02	- the maximum operating depth, in metres	5m	P
Sec.	- the direction of rotation	Copper Copper	C P
0/1/2	Pumps shall be marked with the maximum liquid temperature, which shall not be less than 35℃.	40℃	P
Str. Onis	If the maximum liquid temperature exceeds 35°C, pumps shall be marked with the maximum period of operation, unless	S. CELTY. OHIS CELTY. OHIS CELTY.	N/A
	they intended for continuous operation	eth eth eth	P
7.2	Warning for stationary appliances for multiple supply	Not this appliances	N/A
	Warning placed in vicinity of terminal cover	A A A	N/A

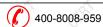
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Clause Requirement + Test Result - Result - Remark Ve  7.3 Range of rated values marked with the lower and upper limits separated by a hyphen  Different rated values marked with the values separated by an oblique stroke  7.4 Appliances adjustable for different rated voltages, the voltage setting is clearly discernible  7.5 Appliances with more than one rated voltage or one or more rated voltage ange, unless  The power input is related to the mean value of the rated voltage range  Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear  7.6 Correct symbols used Correct  Symbol for nature of supply placed next to rated voltage is clear  7.6 Correct symbols used Correct  Symbol for nature of supply placed next to rated voltage symbol for class II appliances placed unlikely to be confused with other marking  Units of physical quantities and their symbols according to international standardized system  7.7 Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless  correct mode of connection is obvious  7.8 Except for type Z attachment, terminals for connection to the supply mains indicated as follows:  - marking of terminals exclusively for the neutral conductor (N)  - marking on placed on removable parts  7.9 Marking or placed on removable parts  7.9 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	OV iS-CERT	Page 19 of 81	Report No.: OViSCE21	04-032
Range of rated values marked with the lower and upper limits separated by a hyphen  Different rated values marked with the values separated by an oblique stroke  7.4 Appliances adjustable for different rated voltages, the voltage setting is clearly discernible  7.5 Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated linput or rated current for each rated voltage or range, unless  Ithe power input is related to the mean value of the rated voltage range  Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear  7.6 Correct symbols used  Correct Symbol for nature of supply placed next to rated voltage  Symbol for nature of supply placed next to rated voltage  Symbol for nature of supply placed unlikely to be confused with other marking  Units of physical quantities and their symbols according to international standardized system  7.7 Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless correct mode of connection is obvious  7.8 Except for type Z attachment, terminals for connection to the supply mains indicated as follows:  - marking of terminals exclusively for the neutral conductor (N)  - marking of protective earthing terminals (symbol 5019 of IEC 60417)  - marking not placed on removable parts  7.9 Marking or placing of switches which may cause a hazard  The figure 0 indicates only OFF position, unless no confusion with the OFF position in confusion with the OFF position in lidications of switches on stationary appliances and controls on all appliances by use of figures, letters or switches which may cause a hazard  The figure 0 indicates only OFF position, unless no confusion with the OFF position in the supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a			-1	
upper limits separated by a hyphen Different rated values marked with the values separated by an oblique stroke 7.4 Appliances adjustable for different rated voltages, the voltage setting is clearly discernible 7.5 Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless the power input is related to the mean value of the rated voltage range Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear  7.6 Correct symbols used Correct Symbol for nature of supply placed next to rated voltage is clear Symbol for class II appliances placed unlikely to be confused with other marking Units of physical quantities and their symbols according to international standardized system Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless correct mode of connection is obvious  7.8 Except for type Z attachment, terminals for connection to the supply mains indicated as follows: - marking of terminals exclusively for the neutral conductor (N) - marking of terminals exclusively for the neutral conductor (N) - marking of terminals exclusively for the neutral conductor of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	Clause	Requirement + Test	Result - Remark	Verdi
Separated by an oblique stroke   Appliances adjustable for different rated voltages, the voltage setting is clearly discernible   Appliances with more than one rated voltage or one or or or rated voltage anges, marked with rated input or rated current for each rated voltage or range, unless   the power input is related to the mean value of the rated voltage range   Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear   Correct symbols used   Correct   Symbol for nature of supply placed next to rated voltage   Symbol for nature of supply placed next to rated voltage   Symbol for nature of supply placed unlikely to be confused with other marking   Units of physical quantities and their symbols according to international standardized system   Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply. unless   correct mode of connection is obvious   National Standardized system   Appliances for multiple supply. unless   correct mode of connection is obvious   National Standardized   National Stan	7.3		CERT CERT CERT	P
voltage setting is clearly discernible  7.5 Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless  the power input is related to the mean value of the rated voltage range  Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear  7.6 Correct symbols used  Symbol for nature of supply placed next to rated voltage  Symbol for class II appliances placed unlikely to be confused with other marking  Units of physical quantities and their symbols according to international standardized system  Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply unless  correct mode of connection is obvious  7.8 Except for type Z attachment, terminals for connection to the supply mains indicated as follows:  - marking of terminals exclusively for the neutral conductor (N)  - marking of protective earthing terminals (symbol 5019 of IEC 60417)  - marking not placed on removable parts  7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means  - marking of placed on removable parts  7.9 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means  - marking or placing of switches which may cause a hazard  7.10 Indication for direction of adjustment of controls  7.11 Indication for direction of adjustment of controls  7.12 Instructions for safe use provided  Enegoisse-4-1 - the pump must not be used when people are in the water.  - the pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a	Ohis		12 0113 0113 012	P
or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless the power input is related to the mean value of the rated voltage range Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear  7.6 Correct symbols used Correct Symbol for nature of supply placed next to rated voltage Symbol for class II appliances placed unlikely to be confused with other marking Units of physical quantities and their symbols according to international standardized system  7.7 Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply unless correct mode of connection is obvious  7.8 Except for type Z attachment, terminals for connection to the supply mains indicated as follows:  - marking of terminals exclusively for the neutral conductor (N) - marking of protective earthing terminals (symbol 5019 of IEC 60417)  - marking or placide on removable parts  7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	7.4		S. CERT . S. CERT . S. CERT	N/A
Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear  7.6 Correct symbols used Correct  Symbol for nature of supply placed next to rated voltage  Symbol for class II appliances placed unlikely to be confused with other marking  Units of physical quantities and their symbols according to international standardized system  7.7 Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply unless correct mode of connection is obvious  Recept for type Z attachment, terminals for connection to the supply mains indicated as follows:  - marking of terminals exclusively for the neutral conductor (N)  - marking of protective earthing terminals (symbol 5019 of IEC 60417)  - marking not placed on removable parts  7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means hazard  The figure 0 indicates only OFF position, unless no confusion with the OFF position  7.11 Indication for direction of adjustment of controls  Instructions for safe use provided  English instruction  EN60335-241 - the pump must not be used when people are in the water.  - the pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a	7.5 M	or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range,	Stellin istellin istellin i	N/A
of rated power input or rated current and voltage is clear  7.6 Correct symbols used  Symbol for nature of supply placed next to rated voltage  Symbol for class II appliances placed unlikely to be confused with other marking  Units of physical quantities and their symbols according to international standardized system  7.7 Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless  correct mode of connection is obvious  7.8 Except for type Z attachment, terminals for connection to the supply mains indicated as follows:  - marking of terminals exclusively for the neutral conductor (N)  - marking of protective earthing terminals (symbol 5019 of IEC 60417)  - marking not placed on removable parts  7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means confusion with the OFF position unless no confusion with the OFF position  7.11 Indication for direction of adjustment of controls  Instructions for safe use provided  EN60335-2-41 - the pump must not be used when people are in the water.  - the pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a	01	· ·		P
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voltage Symbol for class II appliances placed unlikely to be confused with other marking Units of physical quantities and their symbols according to international standardized system 7.7 Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless correct mode of connection is obvious  7.8 Except for type Z attachment, terminals for connection to the supply mains indicated as follows:  - marking of terminals exclusively for the neutral conductor (N) - marking of protective earthing terminals (symbol 5019 of IEC 60417) - marking or placed on removable parts  7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	7.6	Correct symbols used	Correct	(P
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connected to more than two supply conductors and appliances for multiple supply,unless  correct mode of connection is obvious  7.8	Ollis			P
7.8 Except for type Z attachment, terminals for connection to the supply mains indicated as follows:  - marking of terminals exclusively for the neutral conductor (N)  - marking of protective earthing terminals (symbol 5019 of IEC 60417)  - marking not placed on removable parts  7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	7.7 ON 5.0	connected to more than two supply conductors and	S. CERT NIS. CERT NIS. CERT	N/A
as follows:  - marking of terminals exclusively for the neutral conductor (N)  - marking of protective earthing terminals (symbol 5019 of IEC 60417)  - marking not placed on removable parts  7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means		correct mode of connection is obvious		N/A
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5019 of IEC 60417)  - marking not placed on removable parts  7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	gri et		seki seki seki	N/A
7.9 Marking or placing of switches which may cause a hazard  7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	OVISIO			Р
7.10 Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	eri er	/ CY CY CY CY CY	chi chi chi	N/A
controls on all appliances by use of figures, letters or other visual means	7.9		Si disi disi	Р
confusion with the OFF position  7.11 Indication for direction of adjustment of controls  7.12 Instructions for safe use provided  EN60335-2-41 - the pump must not be used when people are in the water.  - the pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a	7.10	controls on all appliances by use of figures, letters or	switches which may cause a	CEP.
7.12 Instructions for safe use provided English instruction  - the pump must not be used when people are in the water.  - the pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a	cki c			R
EN60335-2-41  - the pump must not be used when people are in the water.  - the pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a	7.11	Indication for direction of adjustment of controls	S.C. 11.5.C. 11.5.C.	N/A
water.  - the pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a	7.12	Instructions for safe use provided	English instruction	Р
current device (RCD) having a rated residual operating current not exceeding 30mA.  The instructions for pumps marked with a	EN60335-2-41		5.00 115.00 115.00 11	o CUP
The instructions for pumps marked with a	SERI CE	current device (RCD) having a rated residual	SERIO SERIO	N/A
temperature exceeding 35°C shall state unless	ONIS		12 Miles Miles Miles	N/A

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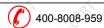




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OViS-CERT				Page 20 of 8	1 3		Report No	.: OViSCE2	2104-032L	
			EN	60335-2-41+	EN 60335	-1				
Clause	Requireme	ent + Test				Result	- Remark		Verdict	50
0,	0,	0,	0,1	0, 0,	, 0	7	0, (	2, 0	0	2

Clause	Requirement + rest	Result - Remark	verdict
0,	0, 0, 0, 0, 0, 0,	0, 0, 0,	, 0
seri se	pump is intended for continuous operation at this temperature	Continuous operation	, SEP
JERÍ OVIS-CE	This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.	See the instructions	P O
EFFT OHIS CH	The instructions for appliances having a part of class III construction supplied from a detachable power supply unit shall state that the appliance is only to be used with the power supply unit provided with the appliance.	Scient outscient outscient ou	N/A
je oviset geri	The instructions for class III appliances shall state that it must only be supplied at safety extra low voltage corresponding to the marking on the appliance. This instruction is not necessary for battery-operated appliances if the battery is a primary battery or secondary battery charged outside of the appliance.	SCEPT OVISCEPT OVISCEPT OVI	N/A
ight outs of	The specific instructions related to the safe operation of this appliance (as given in 7.12 of this standard) shall be collated together in the front section of the user instructions.  The height of the characters, measured on the capital letters, shall be at least 3 mm.  These instructions shall also be available in an alternative format	Schill of Schill	N/A
7.12.1	Sufficient details for installation supplied	Cott. Cott.	S <sup>C</sup> P
EN60335-2-41	- the maximum total head, in metres.	17m	РО
, S. C.	- pollution of the could occur due to leakage of lubricants.	5.75EP5.75EP5.75EP	e CEP
SERT WESTER	<ul> <li>a protective device is to be installed in the fixed wiring and its characteristics are to be specified.</li> <li>For pumps intended to be used in outdoor fountains and similar places shall state</li> </ul>	ECERT WESTERN WESTERN	N/A N/A
	For class I pumps for swimming pools shall state	Not for swimming pools	N/A
ERN WEE	For class III pumps intended to be installed in zone 1 of a swimming pool shall state	E'CER MECERN MECERN	N/A
. di .	For class II pumps intended to be fixed in zone 1 of a swimming pool or similar place shall state		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		N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions stating		N/A

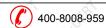
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	EN 60335-2-41+ EN 60335	-1	
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0,	0, 0, 0	0
gri d	that the fixed wiring must be protected	CERT CERT CERT	CERT .
7.12.4	Instructions for built-in appliances: (Not built-in applian	nce)	N/A
gi ,	- dimensions of space	No built-in appliances	N/A
11.5.0	- dimensions and position of supporting means	2. dr. 1.2. dr. 1.2. dr.	N/A
~ O,	- distances between parts and surrounding structure		N/A
.50	- dimensions of ventilation openings and arrangement	Significant Significant Comments of the Commen	N/A
aí on	- connection to supply mains and interconnection of separate components		N/A
C	- plug accessible after installation, unless	5,00° 1,5,00° 1,5,00°	N/A
0,1	a switch complying with 24.3	0, 0, 0	N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	S SEE SEE SEE SEE	N/A
0,1	Replacement cord instructions, type Y attachment	, 0, 0, 0	P
Se. 10	Replacement cord instructions, type Z attachment	CEEP. CEEP. CEEP.	N/A
	order to comply with the standard then the instructions for appliances incorporating a non-self-resetting thermal cutout that is reset by disconnection of the supply mains shall contain the substance of the following:  CAUTION: In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.		N/A
7.12.7	The instructions for fixed appliances shall state how the appliance is to be fixed to its support. The method of fixing stated is not to depend on the use of adhesives since they are not considered to be a reliable fixing means.	S.CERT ON'S CERT ON'S CERT ON	P
7.12.8	The instructions for appliances connected to the water mains shall state the maximum inlet water pressure, in pascals; the minimum inlet water pressure, in pascals, if this is necessary for the correct operation of the appliance. The instructions for appliances connected to the water mains by detachable hose-sets shall state that the new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.	Refer to manual	o de la composição de l
7.13	Instructions and other texts in an official language	English	P
7.14	Marking clearly legible and durable	Legible and durable	P
7.15	Marking on a main part	2. a. 1.2. a. 1.2. a.	5 P
ές ~ Θ,	Marking clearly discernible from the outside, if necessary after removal of a cover		N/A

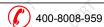
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	T Page 22 of 81	Report No.: OViSCE2	104-03
	EN 60335-2-41+ EN 60335	-1	
Clause	Requirement + Test	Result - Remark	Verd
EEE C	For portable appliances, cover can be removed or opened without a tool	S. O. O. O.	N//
ERÍ OVIE	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
olies.	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	Side distance	N/A
	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	Pass muster	is P
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	5,000 115,000 115,000 1	i Sich P
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		-
8.1	Adequate protection against accidental contact with live parts	(5'.5th)	P
8.1.1	Requirement applies for all positions, detachable parts removed		P
J. 01/15	Insertion or removal of lamps, protection against contact with live parts of the lamp cap  Use of test probe B of IEC 61032: no contact with live	S.C. Olisich Olisich	N//
S. S	parts	actifi actifi	P
8.1.2	Use of test probe 13 of IEC 61032 through openings in class 0 appliances and class II appliances/ constructions: no contact with live parts	Silv disprodisor	N/A
ith OVision	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	S.C. OVIS.C. OVIS.C. C.	N//
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032: no contact with live parts of visible glowing heating elements	S-CERT JIS-CERT JIS-CERT	N/A
8.1.4	Accessible part not considered live if:	0, 0, 0	N/A
, CT 115.C	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	5'5th 115'5th 115'6th	N/A
eki.	- safety extra-low d.c. voltage: not exceeding 42.4 V		N//
	- or separated from live parts by protective impedance	15 S. 15 S. 165 J. 15 S. 1	N/A
E C	If protective impedance: d.c. current not exceeding 2 mA, and		N/A
	a.c. peak value not exceeding 0.7 mA	15,0 11,5,0 11,5,0	N/A
(K)	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 $\mu\text{F}$		N/A
ovis.c	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	Silv Wisich Wisich	N//
8.1.5	Live parts protected at least by basic insulation before	e installation or assembly:	N/A
1:8	- built-in appliances	15'0 15'0 15'0	N/A
0,	- fixed appliances	0, 0, 0	N/A

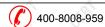
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OV iS-CERT	Page 23 of 81	Report No.: OViSCE21	04-03
	EN 60335-2-41+ EN 60335-	-1	
Clause	Requirement + Test	Result - Remark	Verd
0,,	0, 0, 0, 0, 0, 0,	, 0, 0, 0,	
CHÍ LÝ	- appliances delivered in separate units	cept cept cept	N/A
8.2	Class II appliances 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  Only possible to touch parts separated from live parts	Schi Mischi Mischi	P
. 07	by double or reinforced insulation	0, 0, 0,	Р
10	POWER INPUT AND CURRENT		_
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	H; H; H;	P
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	N//
11	HEATING		_
11.1	No excessive temperatures in normal use	(See appended table) In normal position of use	P
11.2	Hand-held appliances are held in their normal position of use.	Fixed according to the instructions	S CEP
11.3	Temperature rises, other than of windings, determined by thermocouples	(See appended table)	Р
JE (S.	Temperature rises of windings determined by resistance method, unless		e CETP
1 0 m	the windings makes it difficult to make the necessary connections		N/A
11.4	Heating appliances operated under normal operation at 1.15 times rated power input	Not this appliance	N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage	206.8 V and 254.4 V	É
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage	Str. Str. Str.	N//
11.7	Pumps operated with liquid maintained at temperature marked on pump	40℃	Р
EN60335-2-41	They operated until steady conditions established unless	SERT SERT SERT	SEP
EKT ELE	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	e out out out	N//
of one	Shower-boost pumps also supplied with cold water operated with cold water at 15°C±2°C		N/A
SE OVES-CÉ CHÍ É	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		N/A
11.8	Temperature rises not exceeding values in table 3	(see appended tables)	e P
0,	Protective devices do not operate	0, 0, 0,	Р

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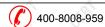
OV iS-CERT	Page 24 of 81 EN 60335-2-41+ EN 60335	Report No.: OViSCE2	104-032L
Clause	Requirement + Test	Result - Remark	Verdict
Olause	Trequirement Frest	Tresuit - Tremain	Verdict
iri Visit	components in protective electronic circuits tested for the number of cycles specified in 24.1.4 (IEC/EN 60335-1/A1)	S.CERT W.S.CERT WISCERT	CEP P
á	Sealing compound does not flow out		P
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	AT OPERATING	
13.1	Leakage current not excessive and electric strength adequate	湖 湖 湖	P
N'iS'C	Heating appliances operated at 1.15 times rated power input	Sich Misigh Misigh	N/A
iki s	Motor-operated appliances and combined appliances supplied at 1.06 times rated voltage:	SERIE SERIE	P
13.2	Protective impedance and radio interference filters disconnected before carrying out the tests  Leakage current measured by means of the circuit	12 0/12 0/12 0	N/A
13.2	described in figure 4 of IEC 60990	CERT CERT CERT	(P
ONIS	Leakage current measurements	(see appended table)	i P
13.3	Electric strength tests according to table 4	(see appended table)	P
	No breakdown during the tests	No breakdown	P
14	TRANSIENT OVERVOLTAGES		_
ON'S'C	Appliances withstand the transient overvoltages to which they may be subjected	Sich Olisich Olisich	N/A
iki wisci	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
Ki C	No flashover during the test, unless of functional insulation		N/A
	In case of flashover of functional insulation, the appliance complies with clause 19 with the clearance short circuited	Sich disign disign	N/A
15	MOISTURE RESISTANCE		_
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	And the other of	РО
it. Onesich	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	S.CH. OHS.CH. OHS.CH.	is CEP
	No trace of water on insulation which can result in a reduction of clearances and creepage distances below values specified in clause 29	S. CERT NIS CERT NIS CERT	CEP P
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529	IPX8	P
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	E NE ONE	N/A
ethi e.ch	Built-in appliances installed according to the instructions	CREEK CREEK CREEK	N/A
ONE	Appliances placed or used on the floor or table placed on a horizontal unperforated support	V V V V	N/A





OV iS - CERT	Page 25 of 81	Report No.: OViSC	E2104-03
	EN 60335-2-41+ EN 60335	0	
Clause	Requirement + Test	Result - Remark	Verd
ERT ONE CE	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	S.CERT NESCERT	N//
jeri e e	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	C.SERT C.SERT	N/A
EFFT ONLY	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube		N/A
iris o	However, 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
Ollis	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	is wis one	N/A
ERI C	Appliances with type X attachment fitted with a flexible cord as described	a selfi a selfi	N/A
01/12	Detachable parts tested as specified	12 01/12 01/13	N/A
EN60335-2-41	Pumps classified IPX4 are tested with the inlet connected to the outlet by means of a tube filled with water.	S.CERT W.S.CERT	N//
iki Misici	Submersible pumps are immersed for 24h in water containing approximately 1% NaCl and having a temperature of 30 °C±5 °C. The water pressure on the enclosure is equal to:	S. SERT MISSERT MISSERT	, CEP
iki isidi	- 1,5 times the pressure occurring at the maximum operating depth, when this depth does not exceed 10m.	S. CLERY S. S. CLERY	S CEP
ETT C	- 1,3 times the pressure occurring at 15m or at the maximum operating depth, whichever is greater, when this depth exceeds 10m.	Chi Chi	N//
15.2	Spillage of liquid does not affect the electrical insulation	is wis wis	N/A
ERI CO	Appliances with type X attachment fitted with a flexible cord as described	activity activity	N//
EHT OWN	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable		N//
115.0	Detachable parts removed	15,0 115,0 115,0	N//
this is	Overfilling test with additional amount of water, over a period of 1 min (I)		N/A
, die	The appliance withstands the electric strength test of 16.3	Si Nisi Nisi	N/A
EFF ES	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29	s cliff	N//
15.3	Appliances proof against humid conditions	4 4 4	N/A
8 4	Humidity test for 48 h in a humidity cabinet	CER CER CER	N/A

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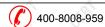




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OViS-CERT				Page 26 of 81		15	Report No.	: OViSCE2	2104-032L	
			EN 6	0335-2-41+ E	N 60335	-1				28
Clause	Requireme	ent + Test				Result -	Remark		Verdict	5,00

16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	I	_
6.1	Leakage current not excessive and electric strength adequate	(see appended table)	Р
Pri .	Protective impedance disconnected from live parts before carrying out the tests	Not applicable	N/A
16.2	Single-phase appliances: test voltage 1.06 times rated voltage	New Only Only	Р
jili)	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$	Coleti Coleti	N/A
	Leakage current measurements	(see appended table)	Р
16.3	Electric strength tests according to table 7	(see appended table)	(P
01/15	No breakdown during the tests	No breakdown	Р
17	OVERLOAD PROTECTION OF TRANSFORMERS A	AND ASSOCIATED	_
RÍ Wis	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	N/A
01/15	Appliance supplied with 1.06 or 0.94 times rated voltage and the most unfavourable short-circuit or overload likely to occur in normal use applied:	Asia Misia Misia M	N/A
ik, onie	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	NE SERIO ONE SERIO ONE SERIO	N/A
pl.	Temperature of the winding not exceeding the value specified in table 8,	SEFFE SEFFE	N/A
ONIS	however limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	My Ones Ones One	N/A
18	ENDURANCE		_
ONIS	Requirements and tests are specified in part 2 when necessary	Not applicable	N/A
19	ABNORMAL OPERATION		_
19.1	The risk of fire or mechanical damage under abnormal or careless operation obviated	Can avoid these risks	Р
je.	Electronic circuits so designed and applied that a faul will not render the appliance unsafe	t ceri	N/A
07/10	Pumps are also subjected to the tests of 19.101 and 19.102.	The Office Office Off	P
19.2	Test of appliance with heating elements with restricted heat dissipation; test voltage (V): power input of 0.85 times rated power input	No heating elements	N/A
19.3	Test of 19.2 repeated; test voltage (V): power input o 1.24 times rated power input	f cliff cliff	N/A
19.4	Test conditions as in cl. 11, any control limiting the temperature during tests of cl. 11 short-circuited	The Miles Miles Miles	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 elements sheath	SECHT OFFICER OFFI	N/A

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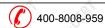




ViS-CERT Page 27 of 81 Report No.: OViSCE2104-032L

	EN 60335-2-41+ EN 60335-	- I	
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0,	, 0, 0, 0,	0
ith citi	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	CERT CERT CERT	N/A
ERÍ CUIS	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	is outs outs out	N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	No PTC heating elements	N/A
jtř dis	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	S.CERT ONS.CERT ON	N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque or locking moving parts of other appliances		PO
ic, Mizich	Locked rotor, motor capacitors open-circuited or short-circuited, if required	S.C. Wig.C. Wig.C.	P
	Locked rotor, capacitors open-circuited one at a time		N/A
Str. Mig-Ch	Test repeated with capacitors short-circuited one at a time, if required	E CEL ME CEL ME CELL	N/A
itiki .c.icili	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	C.CERT C.CERT	N/A
01/10	Other appliances supplied with rated voltage for a period as specified		P
	Winding temperatures not exceeding values specified in table 8	(see appended table)	P
19.8	Three-phase motors operated at rated voltage with one phase disconnected		N/A
19.9	A running overload test is carried out on appliances incorporating motors that are intended to be remotely or automatically controlled or liable to be operated continuously.	Sich offsich offsich of	N/A
19.10	Series motor operated at 1.3 times rated voltage for 1 min	S.C. Mis.c. Mis.c.	N/A
	During the test, parts not being ejected from the appliance		N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless they comply with the conditions specified in 19.11.1		N/A
19.11.1	Before applying the fault conditions a) to f) in 19.11.2, of circuit meet both of the following conditions:	it is checked if circuits or parts	N 6
ieri Niscel	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	S.CERT MIS-CERT MIS-CERT	N/A
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction in other parts of the appliance does not rely on the correct functioning of the electronic circuit	Sicher Misicher Misicher	N/A
19.11.2	Fault conditions applied one at a time, the appliance of specified in cl. 11, but supplied at rated voltage, the du		N/A

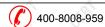
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			104-032
	EN 60335-2-41+ EN 60335	-1	
Clause	Requirement + Test	Result - Remark	Verdi
ERT NISCO	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in 29	S. CERT OF S. CERT OF	N/A
á	b) open circuit at the terminals of any component		N/A
W. C.	c) short circuit of capacitors, unless they comply with IEC 60384-14	Sign Missign Missign	N/A
ight outsid	d) short circuit of any two terminals of an electronic component, other than integrated circuits. This fault condition is not applied between the two circuits of an optocoupler	S.CEFT ON'S CEFT ON'S CEFT	N/A
	e) failure of triacs in the diode mode		N/A
er ovision	f) failure of an integrated circuit. The possible hazardous situations of the appliance are assessed to ensure that safety does not rely on the correct functioning of such a component		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 f) of 19.11.2	S.C. OVISION OVISION OV	N/A
0112	During and after each test the following is checked:	ing Miles Miles M	N/A
Er S	- the temperature rise of the windings do not exceed the values specified in table 8	Steff Steff Steff	N/A
ONIS	- the appliance complies with the conditions specified in 19.13	is one one	N/A
eri e d	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	CEEPI CEEPI CEEPI	N/A
	If a conductor of a printed board becomes open-circular considered to have withstood the particular test, provice conditions are met:		N/A
OVISIO	- the material of the printed circuit board withstands the burning test of annex E	Si disi disi	N/A
	<ul> <li>any loosened conductor does not reduce the clearances or creepage distances between live parts and accessible metal parts below the values specified in cl. 29</li> </ul>	S-CERT OVIS-CERT OVIS-CERT	N/A
ith is	- the appliance withstands the tests of 19.11.2 with open-circuited conductor bridged	SERT SERT SERT	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):	SCERT OVIS-CERT OVIS-CERT OVI	N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	SCER WESCERN ON SCERN	5 CHP
	Temperature rises not exceeding the values shown in table 9	eth eth eth	χP
Visi	Enclosures not deformed to such an extent that compliance with cl. 8 is impaired	S. Mis. Mis.	Р

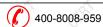
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37 10 OZIKI	EN 60335-2-41+ EN 60335-	0. 0	10.00
Clause	Requirement + Test	Result - Remark	Verd
Clause	requirement i rest	Tresuit - Tremain	Vert
eki sel	If the appliance can still be operated it complies with 20.2	chi chi chi	SES F
Oniz	Insulation, other than of class III appliance, withstand 16.3, the test voltage specified in table 4:	the electric strength test of	i F
	- 1000 V basic insulation	No breakdown	SSF
01/15	- 1750 V supplementary insulation:	No breakdown	i e
A 6	- 3000 V reinforced insulation:	No breakdown	ZÝ.
19.14	Appliances operated under the conditions of Clause 11. Contactors or relays contacts operating under the conditions of clause 11 short-circuited (IEC/EN 60335-1/A2)	SERI SERI SERI	N Str
19.15	For appliances incorporating a mains voltage selector switch, this switch is set to the lowest rated voltage position and the highest value of rated voltage is applied.	is outs outs of	Z.CEL
19.101 EN60335-2-41	Pumps are supplied at rated voltage and operated at approximately half the maximum total head for 5 min,		i i
	after which the inlet is removed from the liquid and the operation continued for 7 h.	State is the istale	.5.CE
0,,	Pumps are then operated again for 5 min at approximately half the maximum total head.	9, 9, 9	F
(f) (f)	If the pump becomes inoperable during the test, it is disconnected from the supply and filled with water.	S. CER. M.S. CER. M.S. CER.	(5,CE)
19.102 EN60335-2-41	Pumps marked with a maximum period of operation are supplied at rated voltage and operated under normal operation until steady conditions are established.	Sicher Mischer	Ñ
20	STABILITY AND MECHANICAL HAZARDS		-
20.1	Adequate stability	Have adequate stability	, S.C.
ERT OFF	Tilting test through an angle of 10° (appliance placed on an inclined plane/horizontal plane); appliance does not overturn	Don't overturn	CEPI
OAIS	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	is ones ones	N
ER OVISCE	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	scen wiscen wisceri	N.
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	SHÊ SHÊ SHÊ	cto
OVIS	Protective enclosures, guards and similar parts are non-detachable	is one one	1,5
iki jek	Adequate mechanical strength and fixing of protective enclosures	SEET SEET SEET	SES
eki ci	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard, by unexpected reclosure		N
ONIS OF	Not possible to touch dangerous moving parts with test probe	Side Wiside Wiside	13. C
21	MECHANICAL STRENGTH		_

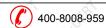
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	EN 60335-2-41+ EN 60335-	-1	
Clause	Requirement + Test	Result - Remark	Verdi
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	Have an adequate mechanical strength	E P
ONIS	The appliance is rigidly supported and three blows are applied to every point of the enclosure		P
J. (5)	No damage after three blows applied to various parts of the enclosure, impact energy 0,5 ± 0,04 J	No damage.	N/A
(f) ()	Pumps, other than shower-boost pumps, impact energy is increased to 1,0 J		P
Wi5.C	If necessary, supplementary or reinforced insulation subjected to the electric strength test of 16.3	S.C. Wisco, Misco,	N/A
EKÍ C	If necessary, repetition of groups of three blows on a new sample	effi effi effi	N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements (IEC/EN 60335-1/A1)		N/A
	The insulation is tested as specified, unless (IEC/EN 60335-1/A1)	Sich disich disich di	N/A
eri ovis-ci	the thickness of supplementary insulation is at least 1 mm and reinforced insulation is at least 2 mm (IEC/EN 60335-1/A1)	Supplementary insulation: Electric connector box enclosure: min. thickness 2.12 mm	o Citi
22	CONSTRUCTION		-
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IPX8	P
22.2	Stationary appliance: means to provide all-pole discorprovided, the following means being available:	nnection from the supply	is P
á.	- a supply cord fitted with a plug		P
.50	- a switch complying with 24.3	500 .500	N/A
Eki Ou	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided	Stri Stri	N/A
01/13	- an appliance inlet	12 Mis Mis 9	N/A
ERT ON'S O	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase permanently connected class I appliances, connected in the phase conductor	E-CERT ONE-CERT ONE-CERT OF	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets	Not this appliance	N/A
	Applied torque not exceeding 0.25 Nm	in one one of	N/A
eri ovisio	Pull force of 50N 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 1mm	S.CERT OVIS.CERT OVIS.CERT OF	N/A
iri Wis C	Each pin subjected to a torque of 0.4Nm; the pins are not rotating unless rotating does not impair compliance with the standard	S-CERT WIS-CERT WIS-CERT	N/A
22.4	Appliance for heating liquids and appliance causing	A A A	N/A

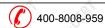
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	EN 60335-2-41+ EN 60335-	-1	
Clause	Requirement + Test	Result - Remark	Verdi
iki ek	undue vibration not provided with pins for insertion into socket-outlets	CERT CERT CERT	C. E. E. E.
22.5	Appliances intended to connect the supply mains by means of a plug shall be no risk of electric shock when the pins of the plug are touched.	No danger.	P
is official	One second after disconnection, the voltage between the pins of the plug shall not exceed 34 V.	3.6V after 1s	JI'S P
22.6	Electrical insulation not affected by condensing water or leaking liquid	S. C. C. S. C. C. C. S. C. C. C. S. C. C. C. S. C. C. C. C. S. C.	C P
<u>a</u> 0"	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak		N/A
EN60335-2-41	The seal is removed from the shaft of class II pumps. The pumps is supplied at rated voltage and operated for 10min with the maximum head that can be achieved.	is it dis it disch	N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices	Not this appliance	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	S-CERT ONIS-CERT ONIS-CERT	N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances	SCH OUS CHE OUS CHE	N S CERT
ith ch	Adequate insulating properties of oil or grease to which insulation is exposed	SERI SERI SERI	N/A
22.10	Location or protection of reset buttons of non-self- resetting controls is so that accidental resetting is unlikely		N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	EL MELL MELL	JI'S P
ir.	Obvious locked position of snap-in devices used for fixing such parts	Softh Softh Softh	C P
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	efti efti efti	N/A
11.15	Tests as described	S 115 115	N'S P
22.12	Handles, knobs etc. fixed in a reliable manner		P
oli s. ch	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible	So disco disco.	J <sup>1</sup> P
ik. History	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	Stelly History	N/A
di 0,	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		P
22.13	Unlikely that handles, when gripped as in normal use, make the operators hand touch parts having a temperature rise exceeding the value specified for	SCC Wisch Wisch	N/A

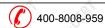
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	EN 60335-2-41+ EN 60335	-1	
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0,	0, 0, 0	,
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	No sharp edges or ragged	SEP P
eri oviis	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	No exposed pointed ends	P
22.15	Storage hooks and the like for flexible cords smooth and well rounded	No storage hooks	N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands, no undue wear of contacts	No automatic cord reels	N/A
	Cord reel tested with 6000 operations, as specified	cept cept cept	N/A
01/15/0	Electric strength test of 16.3, voltage of 1000 V applied	Si disi disi	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	No such components	N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion under normal conditions of use	is die die	P
22.19	Driving belts not used as electrical insulation	No such components	N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless material used is non-corrosive, non-hygroscopic and non-combustible	S OVIS OVIS OV	N/A
ONIS	Compliance is checked by inspection and, if necessary, by appropriate test	13 01/13 01/13 01	N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless impregnated	S. SERRI WIS SERRI WIS SERRI WI	e Citt
22.22	Appliances not containing asbestos	No asbestos	P
22.23	Oils containing polychlorinated biphenyl (PCB) not used	Sich Wisigh Misigh	6 P
22.24	Bare heating elements adequately supported		N/A
N.E.CE	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	5-56. W. 5-56. W. 2001.	N/A
22.25	Sagging heating conductors cannot come into contact with accessible metal parts		N/A
22.26	The insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation	St. Olies, Olies, Ol	N/A
22.27	Parts connected by protective impedance separated by double or reinforced insulation	5.CE 115.CE 115.CE	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	S.Elfil JiS.Elfil JiS.Elfil	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	S. S	N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	CEFT CEFT CEFT	P

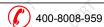
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	EN 60335-2-41+ EN 60335	j-1	0
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0	, 0, 0,	0, 0
, ovision	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete	Scient ouis-celeti	P OF
2.31 Wife of	Clearances and creepage distances over supplementary and reinforced insulation not reduced below values specified for supplementary insulation	S.CERI Wis.CERI Wis.CERI	JUS CERT
i ovisici	Creepage distances and clearances over supplementary or reinforced insulation not reduced to less than 50% of values specified in 29 if wires, screws etc. becomes loose	S. S	CEP OF
2.32	Supplementary and reinforced insulation designed or protected against deposition of dirt or dust	etti etti etti	<sub>S</sub> (P
i dis	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 CERT CERT	N/A
	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	regi regi regi	N/A
ONIS.	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	Eigh Misigh Misigh	N/A
2.33	Conductive liquids that are or may become accessible in normal use are not in direct contact with live parts	softi nesthi	SCEP .
	Electrodes not used for heating liquids	0, 0,	N/A
ovis-c	For class II constructions, conductive liquids that are or may become accessible in normal use, not in direc contact with basic or reinforced insulation	Sieth Wisieth Wisieth	N/A
	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation	S.CERT JIS-CERT JIS-CERT	N/A
2.34	Shafts of operating knobs, handles, levers etc. not live, unless the shaft is not accessible when the part is removed	SERIE SERIE	N/A
22.35	Handles, levers and knobs, held or actuated in norma use, not becoming live in the event of an insulation fault		N/A
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of an insulation fault, they are either adequately covered by insulation material, or their accessible parts are separated from their shafts or fixings by supplementary insulation		N/A
i ovisió	This requirement does not apply to handles, levers and knobs on stationary appliances other than those of electrical components, provided they are either reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed meta	S.CERT ON'S CERT ON'S CERT	N/A
2.36	Handles continuously held in the hand in normal use are so constructed that when gripped as in normal use, the operators hand is not likely to touch metal	S. SERT WIS SERT WIS SERT	N/A
	parts, unless they are separated from live parts by	0, 0,	0
8	double or reinforced insulation	(B) (B) (B)	(8)

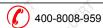
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	EN 60335-2-41+ EN 60335-	-1	
Clause	Requirement + Test	Result - Remark	Verdict
22.37	Capacitors in Class II appliances not connected to	V V V	
	accessible metal parts, unless complying with 22.42	a cetter a cetter	N/A
	Metal casings of capacitors in Class II appliances separated from accessible metal parts by supplementary insulation, unless complying with 22.42	CERT CERT CERT	N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out	is one one on	P
22.39	Lamp holders used only for the connection of lamps	CERT CERT CERT	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	A A A	N/A
EN60335-2-41	The requirement is not applicable to submersible pumps and vertical wet pit pumps.	SERI SERI	É
22.41	No components, other than lamps, containing mercury	is ovis ovis	Р
22.42	Protective impedance consisting of at least two separate components	SERI SERI	N/A
01,15	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	is originalized	N/A
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	Not this appliance	N/A
22.44	Appliances are not allowed to have an enclosure that is shaped and decorated so that the appliance is likely to be treated as a toy by children	Can't be treated as a toy by children	P
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.4 due to deformation as a result of an external force applied to the enclosure	SCERT NESCERT NESCERT	N/A
22.46	If programmable protective electronic circuits are used to ensure compliance with this standard, the software shall contain measures to control the fault/error conditions specified in Table R.1.	Schill Misteri	N/A
22.47	Appliances intended to be connected to the water mains shall withstand the water pressure expected in normal use.	colfi colfi	N/A
22.48	Appliances intended to be connected to the water mains shall be constructed to prevent backsiphonage of non-potable water into the water mains.	SCERT JESCERT JESCERT	N/A
22.49	For remote operation, the duration of operation shall be set before the appliance can be started unless the appliance switches off automatically at the end of a cycle or it can operate continuously without giving rise to a hazard.	ECEPT ONE CEPT ON	N/A
22.50	Controls incorporated in the appliance, if any, shall take priority over controls actuated by remote operation.	Schi M. Chil	N/A
22.51	A control on the appliance shall be manually adjusted to the setting for remote operation before the		N/A

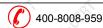
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an insulating sleeve  23.3 Electrical connections and internal conductors movable relatively to each other not exposed to undue stress  Flexible metallic tubes not causing damage to	23.2	and are not resting on sharp edges or corners	No beads.	N/A
movable relatively to each other not exposed to undue stress  Flexible metallic tubes not causing damage to	ONIO	an insulating sleeve		N/A
	23.3	movable relatively to each other not exposed to undue stress	ECER, OLIECER, OLIECER,	N/A
insulation of conductors	r di	Flexible metallic tubes not causing damage to insulation of conductors	SEE SEE SEE	N/A
Open-coil springs not used	Wis.	Open-coil springs not used	S Wis Wis	N/A
Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	in di			N/A

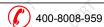
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Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0,	, 0, 0, 0	0
23.4	Bare internal wiring sufficiently rigid and fixed	No bare internal wiring	N/A
23.5	The insulation of internal wiring withstanding the electrical stress likely to occur in normal use	Egg Mizig Mizig	Po
iki Wisich	No breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation		CEP P
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by positive means		N/A
23.7	The colour combination green/yellow used only for earthing conductors	Sich Misigh Misigh	P
23.8	Aluminium wires not used for internal wiring		P
23.9	No lead-tin soldering of stranded conductors where they are subject to contact pressure, unless	Sich Wisith Wisith	P
pi d	clamping means so constructed that there is no risk of bad contact due to cold flow of the solder		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	SERT SERT SERT	N/A
24	COMPONENTS		_
24.1	Components comply with safety requirements in	Pass muster	á
	relevant IEC standards		SEP P
01/12	List of components	(see appended table)	P
	Components not tested and found to comply with relevant IEC standard for the number of cycles specified are tested in accordance with 24.1.1 to 24.1.6	S.CERT ONS.CERT ONS.CERT	N/A
eri ovis-cr	Components not tested and found to comply with relevant IEC standard, components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P CEPT
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14, or	S.CERI OVIS-CERI OVIS-CERI	N/A
S. C.	tested according to annex F	CERT CERT CERT	N/A
24.1.2	Safety isolating transformers complying with IEC 61558-2-6, or	is one one of	N/A
E. C.	tested according to annex G	CERT CERT CERT	N/A
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being t least 10 000, or		N/A
Wis.Ci	Current and power factor measured during switching-on and normal operation	Sich Misign Misign	N/A
gri gri	Switch tested separately according to IEC 328 for 10000 cycles	SERIE SERIE SERIE	N/A
	Switches operated under no load and only with the aid of a tool and interlocked switches operated by hand not subjected to tests of 15 and 16 of IEC 328	12 Mis Mis 9	N/A

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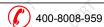




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				EN 60	335-2-41+ EN	60335-	-1				źŚ
5	Clause	Requireme	ent + Test				Result -	Remark		Verdict	3,00

Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0,	0, 0, 0,	0
24.1.4	Automatic controls complying with IEC 60730-1 with recycles of operation being:	relevant part 2. The number of	N/A
Offis	- thermostats: 10 000	is only only on	N/A
EFÉ CÉ	- temperature limiters: 1 000	EERÍ EERÍ	N/A
Wig.	- self-resetting thermal cut-outs: 300	is wish wish	P
	- non-self-resetting thermal cut-outs: 30		N/A
, wis. C	- timers: 3 000	Sign Misign Misign	N/A
	- energy regulators: 10 000		N/A
24.1.5	Appliance couplers complying with IEC 60320-1		N/A
21 04	However, appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable	Sich disite disite	N/A
24.2	Appliances shall not be fitted with	SERIO SERIO SERIO	P
	switches or automatic controls in flexible cords;	is only only	P
fe <sup>fi</sup> "is-cé	devices that cause the protective device in the fixed wiring to operate in the event of a fault in the appliance;	S-SERT NIS-SERT NIS-SERT	SEP S
ERT .S.C	thermal cut-outs that can be reset by a soldering operation, unless the solder has a melting point of at least 230 $^{\circ}$ C.	Sight Sight Sight	N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and having a contact separation in all poles, providing full disconnection under overvoltage category III conditions	E'CEEL ONE CEEL ONE CEEL ON	N/A
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1	Peter Peter Peter	N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	Sich disign disign di	N/A
ER OVISCE	Capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, are of class P1 or P2 of IEC 60252	E-EER OVE-EER OVE-EER OV	N/A
oti ovisici	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	Science of other	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 42V.	S.CET OUS.CET OUS.CET OU	N/A

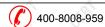
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	EN 60335-2-41+ EN 60335-	-1	
Clause	Requirement + Test	Result - Remark	Verdict
Clause	Trequirement Frest	Tresuit - Tremain	Verdict
eri eri	In addition, the motors are complying with the requirements of Annex I	SEE SEE	N/A
24.7	Detachable hose-sets for the connection of appliances to the water mains shall comply with IEC 61770. They shall be supplied with the appliance.	LE OVIE OVIE OVIE OV	N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE	E CORDS	_
25.1	Appliance not intended for permanent connection to fi connection to the supply:	xed wiring, means for	CEP P
	- supply cord fitted with a plug	01/2 01/2 01	PO
iki <sub>Ni</sub> sci	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance	ECEPT WESTERN ONES THE	N/A
	- pins for insertion into socket-outlets	6 6 6	N/A
25.2	Appliance not provided with more than one means of connection to the supply mains	Sign Misight Misight	N/A
iri ovis-cit	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	SCERI OVISCERI OVISCERIO	N/A
25.3	breakdown  Connection of supply conductors for appliance intended to be permanently connected to fixed wiring possible after the appliance has been fixed to its support	SCEPT OUTS SEPTE OUTS SEPTE	N/A
er Onigeth	Appliance provided with a set of terminals for the connection of cables or fixed wiring, cross-sectional areas specified in 26.6	SCEET ON'S CEET ON'S CEET OF	N/A
gri gg	Appliance provided with a set of terminals allowing the connection of a flexible cord	CEFFE CEFFE	N/A
	Appliance provided with a set of supply leads accommodated in a suitable compartment	one one of	N/A
ik, OAIS-CH	Appliance provided with a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate type of cable or conduit	SCEEPE ON'S CEEPE ON'S CEEPE ON	N/A
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimensions according to table 10	Sight list like	N/A
iki Cref	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in 29	cthi cthi cthi	N/A
25.5	Method for assemble supply cord with the appliance:		P 6
gri est	- type X attachment		N/A
Wis.	- type Y attachment	type Y	P
<i>A</i>	Type X attachment, other than those with a specially		N/A
EN60335-2-41	Type X attachment shall not be used for flat twin tinsel cords cord.	Ect. Meg. Meg. Chr.	N/A
~	00.4.	0 0	~

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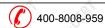
OV iS-CERT	OV iS - CERT Page 39 of 81 Report No.: OViSCE2104-032L  EN 60335-2-41+ EN 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict		
0,	0, 0, 0, 0, 0, 0,	2, 0, 0,	0, 0		
stri si	pumps.	SERI SERI SERI	SERI		
ONIS	Type Z attachment is allowed for:	Ne Wie Wie	N/A		
	- pumps having a rated power input not exceeding 100W.	eth eth eth	N/A		
, Wis	pumps for garden ponds.	is distant	N/A		
25.6	Plugs fitted with only one flexible cord		P		
25.7	Supply cord not lighter than:	115.01. 115.01. 115.01.	P N		
0,	- braided cord (60245 IEC 51)		N/A		
, S. O	- ordinary tough rubber sheathed cord (60245 IEC 53)	Start Start Start	N/A		
07,	- flat twin tinsel cord (60227 IEC 41)	, 0, 0,	N/A		
(A)	- light polyvinyl chloride sheathed cord (60227 IEC	CELL CELL CELL	N/A		
Ollip	52), appliance not exceeding 3 kg - ordinary polyvinyl chloride sheathed cord (60227	My Mig Mig	9/1/2 9/		
eri c	IEC 53), appliance exceeding 3 kg	ethi ethi ethi	N/A		
01:5	Temperature rise of external metal parts exceeding 75 K, PVC cord not used, unless	AST WIST WIST	N/A		
	appliance so constructed that the supply cord is not likely to touch external metal parts in normal use, or		N/A		
71.6.	the supply cord is appropriate for higher	15.0 115.0 115.0	N/A		
EN60335-2-41	temperatures, type Y or type Z attachment used  For pumps intended for outdoor use and pumps		0 0		
	intended for use in swimming pools, other than class III pumps, the supply cord shall be polychloroprene	Sich Sich Sich	N. S. C.		
	sheathed or equivalent synthetic elastomer and not	2, 04, 04,	N/A		
	be lighter than heavy polychloroprene sheathed cord (code designation 60245 IEC 66).	CREEK CREEK CREEK	CERN		
0/1/2	Fixed pumps having a rated power input not exceeding 1 kW and portable pumps having a mass	Me Otto Otto	9, 9,		
	not exceeding 5 kg may be fitted with ordinary	CERT CERT CERT	SEP.		
	polychloroprene sheathed cord (code designation 60245 IEC 57)	ys ouis ouis	J15 01		
ERY C	For pumps intended for indoor use, except table fountain pumps, aquarium pumps and class III	cept cept cept	c Elex		
	pumps, the supply cord shall be polychloroprene	Jes Misin Misin	N/A		
	sheathed or equivalent synthetic elastomer and not be lighter than ordinary polychloroprene sheathed	क्षे क्षे	· Ri		
25.8	cord (code designation 60245 IEC 57)  Nominal cross-sectional area of supply cords	1#1.5mm² 10.1A	-11.5 CC		
-51-50°	according to table 11; rated current (A); cross-	2#1.0mm <sup>2</sup> 2.67A	PO		
EN60335-2-41	sectional area (mm²)  The supply cord of submersible pumps intended for	10m	Silv		
	outdoor use, other than class III pumps, shall have a length of at least 10m.	A. Ohn Ohn	Po		
25.9	Supply cord not in contact with sharp points or edges	CELLE CELLE	,ct P		
25.10	Green/yellow core for earthing purposes in Class I	1/2 0/1/2 0/1/2	о Ро		
X.	appliance	A A A			





EN 60335-2-41+ EN 60335-1				
Clause	Requirement + Test	Result - Remark	Verdi	
25.11	Conductors of supply cords act consolidated by	, 0, 0, 0,		
25.11	Conductors of supply cords not consolidated by lead-tin soldering where they are subject to contact pressure, unless	S.CERT W.S.CERT W.S.CERT	P	
pi)	clamping means so constructed that there is no risk of bad contacts due to cold flow of the solder		N/A	
25.12	Moulding the cord to part of the enclosure does not damage the insulation of the supply cord	Sign Misign Misign Mi	N/A	
25.13	Inlet opening so shaped as to prevent damage to the supply cord	seri seri seri	É	
ERT OVIS	Unless the enclosure at the inlet opening is of insulation material, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided	Stri die Stri Stri	P	
01/15	If unsheathed supply cord, a similar additional bushing or lining is required, unless	is one one	N/A	
	the appliance is class 0	CEPT CEPT CEPT	N/A	
25.14	Supply cords adequately protected against excessive flexing	is one one	Р	
Eri d	Flexing test:	ethi ethi ethi	(P	
N'iS'	- applied force (N)	10N WE WE	Р	
est a	- number of flexings	10000	P	
Nie.	The test does not result in:	is of wis of wis of	ЭΡ	
á	- short circuit between the conductors		P	
P Wisio	- breakage of more than 10% of the strands of any conductor	S.Ch. Nis.Ch. Nis.Ch.	5 P	
. di	- separation of the conductor from its terminal		P	
	- loosening of any cord guard		Р	
. di	- damage, within the meaning of the standard, to the cord or the cord guard		P	
, W.E.C	<ul> <li>broken strands piercing the insulation and becoming accessible</li> </ul>	S.Ch. W.S.Ch. W.S.Ch.	5 P	
25.15	Conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage		P	
OV:5.	Cord or internal parts of appliance not damaged when cord pushed into the appliance	Silve Wisign Misign	Р	
	Pull force applied 25 times to supply cord:		P	
Nie.	Torque applied to supply cord (Nm):	0.35Nm 100N	5 P	
at o	Torque test not performed (automatic cord reel)		N/A	
, S. C.	No damage of the cord	Sight, Sight, Sight,	Р	
ai on	Max. 2 mm displacement of cord; conductors not moved more than 1 mm in the terminals	Cord displacement: Max. 1,0 mm	P	
25.16	Cord anchorages for type X attachments constructed	and located so that:	N/A	
011	- replacement of the cord is easily possible	. 01, 01, 01	N/A	

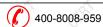
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OV iS-CERT	T Page 41 of 81	Report No.: OViSCE	2104-03
	EN 60335-2-41+ EN 60335-	0	0,,,,,,,
Clause	Requirement + Test	Result - Remark	Verdi
0,	0, 0, 0, 0, 0, 0,	, 0, 0,	0,
iki aci	- it is clear how the relief from strain and the prevention of twisting are obtained	Ster Ster Ster	N/A
	- they are suitable for different types of cord	is Ohis Ohis	N/A
ERT OVISION	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless separated from accessible metal parts by supplementary insulation	Schill Olis Chil	N/A
EFF C	- the cord is not clamped by a metal screw which bears directly on the cord		N/A
EKI OVIII	<ul> <li>at least one part of the cord anchorage securely fixed to the appliance, unless part of a specially prepared cord</li> </ul>		N//
OVISIO	- screws which have to be operated when replacing the cord do not fix any other component, if applicable	Est diest diest	N/A
eri c	- 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 a failure of the insulation of the cord does not make accessible metal parts live	CERT CERT CERT	N/A
eki ovie	- for Class II appliances: they are of insulating material, or if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A
25.17	Adequate cord anchorages for type Y and Z attachment	Sid official official	P
25.18	Cord anchorages only accessible with the aid of a tool, or	EFFT EFFT	ÉP
OVIS	so constructed that the cord can only be fitted with the aid of a tool	e one one	oli <sup>5</sup> P
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	SERIE SERIE SERIE	N/A
Onlin	Tying the cord into a knot or tying the cord with string not used		N/A
25.20	Conductors of the supply cord for type Y and Z attachment adequately additionally insulated	type Y	C P
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed to permit checking of conductors with respect to correct positioning and connection before fitting any cover,	SCERI JESCERI	N//
EH 0"	no risk of damage to the conductors when fitting the cover, no contact with accessible metal parts if a conductor becomes loose, etc.	CERT CERT CERT	CERT
iki ovis	For portable appliances, the uninsulated end of a conductor prevented from any contact with accessible metal parts, unless the end of the cord is such that the conductors are unlikely to slip free	SERT SERT SERT	N//
25.22	Appliance inlet:	113 01/13 01/13	N/A
eti e	- live parts not accessible during insertion or removal	SEE SEE SEE	N/A
Nie.	- connector can be inserted without difficulty	5 115 115	N/A
	- the appliance is not supported by the connector	A A A	N/A

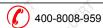
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	DV iS-CERT Page 42 of 81 Report No.: OViSCE2104-03 EN 60335-2-41+ EN 60335-1				
Clause	Requirement + Test	Result - Remark	Verdi		
Olduse	Trequirement Floor	Tresuit Tremain	VOIG		
ERI WES	- is not for cold conditions if temp. rise of external metal parts exceeds 75 K, unless the supply cord is not likely to touch such metal parts	IS-CERT NIS-CERT NIS-CERT	N/A		
25.23	Interconnection cords comply with the requirements for the supply cord, except as specified		N/A		
	If necessary, electric strength test of 16.3	15' 115' 115'	N/A		
25.24	Interconnection cords not detachable without the aid of a tool if compliance with the standard is impaired when they are disconnected	CERT CERT CERT	N/A		
25.25	Dimensions of pins compatible with the dimensions of the relevant socket-outlet. Dimensions of pins and engagement face in accordance with the relevant plug in IEC 60083	SEER SEER SEER	N/A		
26	TERMINALS FOR EXTERNAL CONDUCTORS				
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	KE CERN ONE CERN ONE CERN	N/A		
gri d	Terminals only accessible after removal of a non-detachable cover	seri seri seri	N/A		
26.2	Appliances with type X attachment and appliances fo connection to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless the connections are soldered	Schi nischt nischt	N/A		
Ki C	Screws and nuts serve only to clamp supply conductors, except		N/A		
	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	is on a mistar	N/A		
ik, Ohis c	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone	Astern Onistelli, Onistelli,	N/A		
ERT5.0	Soldering alone used, barriers provided, clearances and creepage distances satisfactory if the conductor becomes free at the soldered joint	NS-CEPT NS-CEPT	N//		
26.3	Terminals for type X attachment and for connection to fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure and without damaging the conducto	Setti Merchi	N//		
	Terminals for type X attachment and those for connet that when tightening or loosening the clamping mean		I N/A		
11:5:	- the terminal does not loosen	15.61 115.61 115.61	N/A		
7 0,	- internal wiring is not subjected to stress	7 7 7 X	N/A		
28° 115°C	- clearances and creepage distances are not reduced below the values in 29		N/A		
EHÍ OVIS-C	Compliance checked by inspection and by the test of subclause 8.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified. Nominal diameter of thread (mm); screw category; torque (Nm)	Scelif Oris-Celif	N/A		

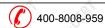
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OV iS-CERT	Раде 43 of 81	Report No.: OViSCE2	104-03
	EN 60335-2-41+ EN 60335	i-1	
Clause	Requirement + Test	Result - Remark	Verd
0,	0, 0, 0, 0, 0, 0, 0	, 0, 0, 0	9
26.4	Terminals for type X attachment, except those with a	CERT CERT CERT	CERT.
1.5	specially prepared cord, and those for connection to fixed wiring, no special preparation of conductors	15,0 11,5,0 11,5,0	N/A
0,	required, and so constructed or placed that		× ×
26.5	conductors prevented from slipping out  Terminals for type X attachment so located or	Ch. Ch. Ch.	C(R)
20.5	shielded that if a wire of a stranded conductor	the Mis Mis	S NV
	escapes, no risk of accidental connection to other	4 4 4	N/A
	parts that result in a hazard	Carlo Carlo	S NI
0/1/2	Stranded conductor test, 8 mm insulation removed	his only only	N/A
	No contact between live parts and accessible metal parts and, for class II constructions, between live	CERT CERT CERT	
1.5.	parts and metal parts separated from accessible	15.01 115.01	N/A
26.6	metal parts by supplementary insulation only  Terminals for type X attachment and for connection to		4
£10.0	fixed wiring suitable for connection of conductors with		CERT
	required cross-sectional area according to table 13;	15' Wist Wist	N/A
	rated current (A); nominal cross-sectional area (mm²)		_
	Terminals only suitable for a specially prepared cord	coth coth	N/A
26.7	Terminals for type X attachment accessible after	13 0413 0413 0	NI//
<u> </u>	removal of a cover or part of the enclosure	19, 19, 19,	N/A
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other	(5,0° 1,5,0° 1,5,0°	N/A
26.9	Terminals of the pillar type constructed and located	0, 0, 0	N/A
26.10	as specified  Terminals with screw clamping and screwless	Chr. Chr. Chr.	7.Chr.
	terminals not used for flat twin tinsel cords, unless	he only only	N/A
	conductors ends fitted with a device suitable for screw terminals		.65
.50	Pull test of 5 N to the connection	5 5 5	N/A
26.11	For type Y and Z attachment: soldered, welded,	A ON ON O	9.
gr <sup>i</sup> d	crimped and similar connections may be used	alki alki alki	N/A
	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering,	15' 11'5' 11'5' O	N/A
	welding or crimping alone	7 7 7	1 1//
327	For Class II appliances: soldering, welding or	CERT CERT CERT	Chin
	crimping alone used, barriers provided, clearances and creepage distances satisfactory if the conductor	12 Mis Mis	N/A
á.	becomes free	.aaa.	6
27	PROVISION FOR EARTHING		-
27.1	Accessible metal parts of Class 0I and I appliances,	0, 0, 0	_
	permanently and reliably connected to an earthing terminal or contact of the appliance inlet	CERT CERT CERT	CEPR
ON'S'	Earthing terminals not connected to neutral terminal	Not connected to neutral terminal	Р
CAN C	Class 0, II and III appliance have no provision for	LEITHIIA	N/A
7.6°	earthing Safety extra-low voltage circuits not earthed, unless	16 16 16 16 1	CON/
0,1	protective extra-low voltage circuits not eartned, unless	0, 0, 0	N/A

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OViS-CERT	Page 44 of 81 EN 60335-2-41+ EN 60335	Report No.: OViSCE2	2104 0025
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0,	, 0, 0, 0	2, 0
27.2	Clamping means adequately secured against accidental loosening	CHRI CHRI CHRI	P
el dis	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and	a dist dist	N/A
r Wigi	do not provide earthing continuity between different parts of the appliance	Side Nigide Nigide	N P
A C	Conductors cannot be loosened without the aid of a tool		P
27.3	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage		PO
27.4	No risk of corrosion resulting from contact between metal of earthing terminal and other metal	No corrosion risk	JIP P
iti d	Adequate resistance to corrosion of coated or uncoated parts providing earthing continuity, other than parts of a metal frame or enclosure	SER SER SER	P
	Parts of steel providing earthing continuity provided at the essential areas with an electroplated coating, thickness at least 5 µm	<sup>‡</sup> >>5 μm	Nies P O
dist	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmi contact pressure		Po
. S. 1935	In case of aluminium alloys precautions taken to avoid risk of corrosion	No such component	N/A
27.5	Low resistance of connection between earthing terminal and earthed metal parts		P
ir ovisco	This requirement does not apply to connections providing earthing continuity in the protective extralow voltage circuit, provided that clearances of basic insulation are based on the rated voltage of the appliance	Selfi Misery Misery	N/A
	Resistance not exceeding 0,1 $\boldsymbol{\Omega}$ at the specified low-resistance test	0.014Ω	PO
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand held appliances	S.C. Nis.C. Nis.C.	N/A
eri c	They may be used in other appliances if:	CHI CHI CHI	N/A
RÍ WIS	- at least two tracks are used with independent soldering points and the appliance complies with requirements of 27.5 for each circuit		N/A
N.E.C	- the material of the printed circuit board complies with IEC 60249-2-4 or IEC 60249-2-5	S.Cr Nig.Cr Nig.Cr	N/A
28	SCREWS AND CONNECTIONS		
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	Ergt Misrett Misrett	P
ith and	Screws not of soft metal liable to creep, such as zinc or aluminium	CLEFF. CLEFF	CEP P
ONIE	Diameter of screws of insulating material min. 3 mm	Not screws material of insulating	N/A

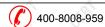




SCHRÍ OVIS

	EN 60335-2-41+ EN 60335	i-1	
Clause	Requirement + Test	Result - Remark	Verdict
Oladoc	Trequirement - rest	Trebuit Tremain	Verdice
Eri Misich	Screws of insulating material not used for any electrical connection or connections providing earthing continuity	Not screws material of insulating	N/A
gi d	Screws used for electrical connections or connections providing earthing continuity screw into metal		P
Y ONIESTO	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	Sich dision distor	N/A
iti diser	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 can impair basic insulation	S.CER. OISCER.	N/A
1.5.0	For screws and nuts; test as specified	(see appended table) No damage	Р
o	number of times:	10	Р
	torque (table 14) (Nm):	a Cett a Cett	Р
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure not transmitted through insulating material liable to shrink or distort, unless shrinkage or distortion compensated	S.CERT OVIS-CERT OVIS-CERT OF	P
iri Ovisici	This requirement does not apply to electrical connections in circuits carrying a current not exceeding 0.5A	S.CERI OVIS-CERI OVIS-CERI	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	SERI SERI SERI	N/A
et o <sub>lits</sub>	Thread-cutting (self-tapping) screws only used for electrical connections if they generate a full form standard machine screw thread		N/A
OVIS.CO	Such screws not used if they are likely to be operated by the user or installer unless the thread is formed by a swaging action		N/A
er ovisible	Thread-cutting and space-threaded screws may be used in connections providing earthing continuity, provided unnecessary to disturb the connection and at least two screws are used for each connection	ELER MECERY OF C	N/A
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	Elen Merch Merch	P
od ist	Rivets for electrical connections or connections providing earthing continuity secured against loosening if subjected to torsion		N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOI	LID INSULATION	_
011	Clearances, creepage distances and solid insulation withstand electrical stress	0, 0, 0, 0	P
OVISOR	For coatings used on printed circuits boards to protect the microenvironment or to provide basic insulation, annex J applies	S.Ch. Mis.Ch. Mis.Ch.	P

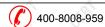
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	EN 60335-2-41+ EN 60335-	1	
Claves			Vondi
Clause	Requirement + Test	Result - Remark	Verdi
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15	(see appended table)	S.CEP
jeri visc	The values specified may be smaller for basic insulation and functional insulation if the clearance meets the impulse voltage test of clause 14	SCERT WESTERN WESTERN	N/A
EFFT OVISA	Lacquered conductors of windings assumed to be bare conductors, but the clearances specified in table 16 are reduced by 0.5mm for rated impulse voltages of at least 1500V	Schi Misteri Misteria	P
	Appliances are in overvoltage category II	Overvoltage category II	P
, ON:5:	Clearances less than specified in table 16 not allowed for basic insulation of class 0 and class 0I appliances,	Sign Misign Misign	N/A
, gi	or if pollution degree 3 is applicable		P
is William	Compliance is checked by inspection and measurements as specified	2.01 N.2.01 N.2.01	Р
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	S-CERT S-CERT S-CERT	S CEP
al on	The values of table 16 or the impulse voltage test of clause 14 are applicable	(see appended table)	P
ONIE T	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	Sch disch disch di	N/A
ERI . S. C	Lacquered conductors of windings considered to be bare conductors	e. Chill . C. Chill . C. Chill	CEP.
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	(see appended table)	P
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, but using the next higher step for rated impulse voltage	(see appended table)	P
ERT OVISA	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	SCEPT OF SCEPT OF SCEPT	P P
29.1.4	For functional insulation, the values of table 16 are applicable, unless	E.C. M. S.C. M. S.C.	5°P
egi .	the appliance complies with clause 19 with the functional insulation short-circuited		N/A
, olie,	Clearances at crossover points of lacquered conductors not measured	Sid distra distra	N/A
epi c	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N/A
29.1.5	Appliances having higher working voltage than rated voltage, the voltage used for determining clearances from table 16 is the sum of the rated impulse voltage and the difference between the peak value of the working voltage and the peak value of the rated	SCERT WESTERN WESTERN	N/A

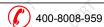
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EN 60335-2-41+ EN 60335-1				
Clause	Requirement + Test	Result - Remark	Verd	
0,	0, 0, 0, 0, 0, 0,	, 0, 0, 0	à :-	
er ovisch	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower	S. CERT ON'S CERT ON'S CERT ON	N//	
	step for rated impulse voltage	cities cities cities	Car	
iki "sof	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation based on the working voltage used as the rated voltage in table 15	S. CERT S. CERT	N/	
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)	, E	
Nis	Pollution degree 2 applies, unless	is wis wis	P	
EKI C	precautions taken to protect the insulation; pollution degree 1	eti eti	N/.	
ONIS	insulation subjected to conductive pollution; pollution degree 3	is dies dies di	F	
eri eri	Compliance is checked by inspection and measurements as specified	SEEPE SEEPE	Ñ/	
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	P	
ir ovision	For pollution degree 1, creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14		N/	
29.2.2	Creepage distances of supplementary insulation at least as specified for basic insulation in table 17	(see appended table)	S CUP	
29.2.3	Creepage distances of reinforced insulation at least double as specified for basic insulation in table 17	(see appended table)	F	
29.2.4	Creepage distances of functional insulation not less than specified in table 18	5.561 11.5.561 11.5.561.	N/	
iki ci	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	SEE SEE	, SEPÉ	
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses		P	
Wis.	Compliance checked	is' wis' wis'	6 P	
Ø .	- by measurement, in accordance with 29.3.1, or		R	
c. Wis.c.	- by an electric strength test in accordance with 29.3.2, or	Sich Misich Misich	N/.	
iri ovisici	<ul> <li>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</li> </ul>		N/	
	- for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	E. SERT E. SERT	Ń/	
41,2	- by an assessment of the thermal quality of the	the site of the	N/	

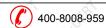
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Clause 29.3.1	EN 60335-2-41+ EN 60335- Requirement + Test  strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or - as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage	Result - Remark	Verdi
	strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or - as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage	Nesult - Nemark	Verdi
29.3.1	layer internal wiring insulation touching each other, or - as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage	SEFF SEFF	1
29.3.1	insulation that is subjected to any periodic voltage		CERY
29.3.1	having a frequency exceeding 30 kHz		N/A
380	Solid insulation having a minimum thickness of 1mm for supplementary insulation,	Electric connector box enclosure: min. thickness 3.12 mm	Р
	and 2mm for reinforced insulation	CELLE CELLE	O P
iki "S.Cli	This requirement does not apply if the supplementary insulation, other than mica or similar scaly material, consists of at least two layers, each of the layers withstands the electric strength test of 16.3	SCHI UND OND OF	N/A
iti nie ch	This requirement does not apply if the reinforced insulation, other than mica or similar scaly material, consists of at least three layers, any two layers together withstand the electric strength test of 16.3	Sieler Weiter	N/A
iki cit	This requirement also does not apply to inaccessible insulation and does not exceed the maximum permissible temperature values, or	SERIO SERIO SERIO	N/A
	if the insulation, after conditioning as specified, withstands the electric strength test of 16.3	is one one of	N/A
30	RESISTANCE TO HEAT AND FIRE	CERT CERT CERT	(E)P
30.1	External parts of non-metallic material,	15 Nig Nig	Р
epi es	parts supporting live parts, and		νP
ON:25.Ch	thermoplastic material providing supplementary or reinforced insulation,	El Misign Misign	Р
	sufficiently resistant to heat	ethi ethi ethi	ÉP
Wis'	Ball-pressure test according to IEC 60695-10-2	S' NIS' NIS'	Р
ERT ON'S CE	External parts: 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)	SCEPT OVISCEPT OVISCEPT OF	CEP P
EHT ONES CH	Parts supporting live parts: 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)	SCERT ONISCERT ONISCERT	P P
SERÎ OVIESEÊ	Parts of thermoplastic material providing supplementary or reinforced insulation, 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C)	SCERI ONISCERIO ONISCERIO ON	N/A
30.2	Relevant parts of non-metallic material adequately resistant to ignition and spread of fire	S. CERT S. CERT	S CP
011,	This requirement does not apply to:	0, 0, 0	N/A

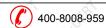
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10 02111	EN 60335-2-41+ EN 60335-		7.0.00=
lause	Requirement + Test	Result - Remark	Verdic
0,	0, 0, 0, 0, 0, 0,	, 0, 0, 0	20
Wis ch	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	S.CEFFI NIS.CEFFI NIS.CEFFI	N/A
	Compliance checked by the test of 30.2.1, and in addition:		P
	- for attended appliances, 30.2.2 applies	Sil 11:5:0 11:5:0	N/A
0	- for unattended appliances, 30.2.3 applies		P
.5.0	For appliances for remote operation, 30.2.3 applies	5-011 15-011 15-011	N/A
0,	For base material of printed circuit boards, 30.2.4 applies		N/A
0.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 ℃	S.Ch. M.S.Ch. M.S.Ch.	P
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 ℃, or	c. Clfri c. Clfri	N/A
ONE	the material is classified at least HB40 according to IEC 60695-11-10	9/19 9/19	N/A
Nis.ch	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	S.CERT ONIS CERT ONIS CERT	N/A
0.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and	S.CERT NISCERT NISCERT	N/A
0.	parts of non-metallic material within a distance of 3 mm of such connections,		N/A
115.0	subjected to the glow-wire test of IEC 60695-2-11	5.01 115.01 115.01	N/A
0.	The test severity is:	\(\text{\lambda}\) \(\lamb	N/A
1.5	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	SCHOOL SCHOOL SCHOOL	N/A
0,	- 650 °C, for other connections	V V V	N/A
.5.0	Glow-wire applied to an interposed shielding material, if relevant	S. CERN S. S. CERN	N/A
( ) (c)	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:	CERT CERT CERT	N/A
01/12	- 750 ℃, for connections carrying a current exceeding 0,5 A during normal operation	10 Mis Mis	N/A
C. C.	- 650 °C, for other connections	CEFF CEFF	N/A
Miss	The glow-wire test is also not carried out on small parts. These parts are to:	is dies dies	N/A
Nis.ch	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	S.CEFFI NIS-CEFFI NIS-CEFFI	N/A
(	- comply with the needle-flame test of annex E, or	& & &	N/A
W.15.C	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10 :	5 Ch 115 Ch 115 Ch	N/A
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Glow-wire test not applicable to conditions as specified :		N/A
	Tobooiiioa · 🗴 .	CV CV CV	CV

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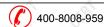


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	EN 60335-2-41+ EN 60335	-1	
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0,	0, 0, 0	0
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	Stiff Stiff Stiff	, SEP
	Test not applicable to conditions as specified	12 Only Only	N/A
30.2.3.1	Parts of insulating material supporting connections carrying a current exceeding 0.2A during normal operation, and	S. SERTI MIS-SERTI MIS-SERTI	N/A
	parts of insulating material within a distance of 3mm,		N/A
ir visici	having a glow-wire flammability index of at least 850 ℃ according to IEC 60695-2-12	S.CER MISCER MISCER	N/A
30.2.3.2	Parts of insulating material supporting current-carrying connections, and	Pass muster	R
	parts of insulating material within a distance of 3mm,	15,0. W. 210. W. 12,0.	P P
~ ·	subjected to glow-wire test of IEC 60695-2-11	V V V	Р
CHIE CH	Test not carried out on material having a glow-wire ignition temperature according to IEC 60695-2-13 as specified	ECH DIECH DIECH	N/A
gir ck	Glow-wire test of IEC 60695-2-11, the temperature be	eing:	N/A
0/1/2	-750 ℃, for connections carrying a current exceeding 0,2A during normal operation	5 0115 0115 O	Pó
EF) CF	-650 ℃, for other connections	CERT CERT CERT	N/A
ONIS	Parts that during the test produce a flame persisting longer than 2 s, tested as specified	is office of	N/A
	If a flame persists longer than 2 s during the test, parts above the connection, as specified, subjected to the needle-flame test of annex E, unless	<2 s	N/A
gi d	the material is classified as V-0 or V-1 according to IEC 60695-11-10		N/A
30.2.4	Base material of printed circuit boards subjected to needle-flame test of annex E	Sin History Officers Of	N/A
	Test not applicable to conditions as specified	cept cept cept	N/A
31	RESISTANCE TO RUSTING		_
já sá	Relevant ferrous parts adequately protected against rusting		P
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		_
d .	Appliance does not emit harmful radiation		P
W. S. C.	Appliance does not present a toxic or similar hazard	2. C. 1. C. 1. C. 1. C.	P
A	ANNEX A (INFORMATIVE) ROUTINE TESTS		

E	3	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE B	ATTERIES	_
_<	01/13	Description of routine tests to be carried out by the manufacturer	me one one on	N/A
4	1	ANNEX A (INFORMATIVE)   ROUTINE TESTS		_

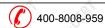
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JV 13 CERT	EN 60335-2-41+ EN 6033	)	3L210+ 032L
Clause	Requirement + Test	Result - Remark	Verdict
Clause	Trequirement i lest	INESUIL - INCINAIN	Verdict
ERT WIS C	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	is cert wis cert wis cert	N/A
	This annex does not apply to battery chargers		N/A
, j	Three forms of construction covered:	Color Color	N/A
EFT USS	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance	ierchi ierchi ierchi	N/A
et ouese	b) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery	iscepti onscepti	N/A
in ouis of	c) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit	rectification of the control of the	N/A
3.1.9	Appliance operated under the following conditions:		N/A
er d	the appliance, supplied by its fully charged battery, operated as specified in relevant part 2	str str	N/A
	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		N/A
OVISTO	<ul> <li>f possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2</li> </ul>	reich orieith orieith	N/A
ERÍ WES	- if the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed	I'E'CEFT JI'E'CEFT JI'E'CEFT	N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable		N/A
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	12.C. 112.C. 112.C.	N/A
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage and polarity of the terminals	SCHÁ SCHÁ	N/A
84 04 c	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006		N/A
OVIST	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or	CERT OFFT OFFT	N/A
04,15	use only with <model designation=""> supply unit</model>	11,2 11,12 11,12	N/A
7.6	Symbols 60417-5005 and IEC 60417-5006		N/A

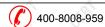
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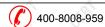
ViS-CERT	Page 52 of 81	Report No.: OViSCE21	04-032L
	EN 60335-2-41+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0	2, 0, 0, 0,	0
7.12	The instructions give information regarding charging  The instructions for appliances incorporating	IS SERIE SERIE	N/A
E	batteries intended to be replaced by the user includes required information		N/A
	Details about how to remove batteries containing materials hazardous to the environment given	is of wis of wis of	N/A
£ .48	Instructions for appliances containing non user-replacement substance of the following:	aceable batteries state the	N/A
OVISION	This appliance contains batteries that are only replaceable by skilled persons	is dist dist	N/A
E CEL	Instructions for appliances containing non-replaceat substance of the following:	ble batteries shall state the	N/A
01/15	This appliance contains batteries that are non-replaceable	lize Olize Olize Oli	N/A
E Wis CER	For appliances intending to be supplied from a detact purposes of recharging the battery, the type reference is stated along with the following:		N/A
A SCH	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	. S. CERT . S. CERT	N/A
0,1	If the symbol for detachable supply unit is used, its meaning is explained	y 94 94 9	N/A
7.15	Markings placed on the part of the appliance connected to the supply mains	. S. C	N/A
Z	The type reference of the detachable supply unit is placed in close proximity to the symbol		N/A
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment	RECORD OF STATE OF	N/A
Mis.Cr	If the appliance can be operated without batteries, double or reinforced insulation required	15.0t Wis.0t Wis.0t	N/A
11.7	The battery is charged for the period stated in the instructions or 24 h:		N/A
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K):	les dies dies di	N/A
,	If no limit specified, the temperature rise does not exceed 20 K; measured (K):	11.2. Ct. 11.2. Ct. 11.2. Ct. 11.	N/A
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103		N/A
19.10	Not applicable	.5'0' .5'	S N/A
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged		N/A
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,	is the off of	N/A
19.B.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation	ligiget. Ohigiget. Ohigiget.	N/A

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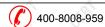
ViS-CERT	Page 53 of 81	Report No.: OViSCE21	04-032
	EN 60335-2-41+ EN 6033		
Clause	Requirement + Test	Result - Remark	Verdi
19.13	The better does for much under invited	20, 00, 00, 00	
	The battery does not rupture or ignite	Chi Chi	N/A
21.B.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength	is wis wis	<sup>™</sup> N/A
	Part of the appliance incorporating the pins subjected 2, of IEC 60068-2-31, the number of falls being:	d to the free fall test, procedure	N/A
	- 100, if the mass of the part does not exceed	12 112 112	N/A
Ø / Ø	250 g (g) : - 50, if the mass of the part exceeds 250 g :		N/A
<u>) (V</u> :S	After the test, the requirements of 8.1, 15.1.1, 16.3	.5 .5 .5 .5	C/C/V
01/1	and clause 29 are met	1. On On On	N/A
22.3	Appliances having pins for insertion into socket-outlets tested as fully assembled as	cethi cethi cethi	N/A
1.5.	possible	15° 115° 115° 1	5
25.13	An additional lining or bushing not required for interconnection cords in class III appliances or		4
	class III constructions operating at safety extra-low	Cetter Cetter	N/A
01,12	voltage not containing live parts	112 0112 0112 01	P
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	油油油油	N/A
(5,5)	For other parts, 30.2.2 applies	,500, 150	5 N/A
С	ANNEX C (NORMATIVE)	7, 27, 27,	
v - CV	AGEING TEST ON MOTORS	CA CA CA	CV
	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	ising diging diging of	N//
F CE	Test conditions as specified	SER SER SER	N//
D	ANNEX D (NORMATIVE)	~ / ~ ~ / ~ ~ / · ·	N//
ó\	THERMAL MOTOR PROTECTORS  Applicable to appliances having motors that		(A)
	incorporate thermal motor protectors necessary for compliance with the standard	iscer we can	N/A
á	Test conditions as specified	á á á	N/A
E	ANNEX E (NORMATIVE)		
<u>ر</u>	NEEDLE-FLAME TEST  Needle-flame test carried out in accordance with IEC following modifications:	C 60695-11-5, with the	N/A
7 .5	Severities	.5°C	S N/A
07/10	The duration of application of the test flame is	110 0110 0110 01	`
	30 s ± 1 s		N/A
9 (5)	Test procedure	1.8,0	5 N/A
9.1	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1		N/A
9.2	The first paragraph does not apply	15 15 15	N/A
Sti The	If possible, the flame is applied at least 10 mm from a corner		N//
9.3	The test is carried out on one specimen	(5) (5)	S N/A





OV iS-CERT	Page 54 of 81	Report No.: OViSCE21	04-03
	EN 60335-2-41+ EN 60335	)	
Clause	Requirement + Test	Result - Remark	Verd
0,	0, 0, 0, 0, 0, 0,	2, 0, 0, 0,	
	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test	HE CHI WE CHI	N/A
11	Evaluation of test results		N/A
	The duration of burning not exceeding 30 s	Cott. Cott. Cott.	N/A
ai oli	However, for printed circuit boards, the duration of burning not exceeding 15 s		N/
F	ANNEX F (NORMATIVE) CAPACITORS		
	Capacitors likely to be permanently subjected to the stradio interference suppression or voltage dividing, co of IEC 60384-14, with the following modifications:		N/A
1.5	Terms and definitions	2, 0, 0, 0	N/A
1.5.3	Class X capacitors tested according to subclass X2	CERT CERT CERT	N/A
1.5.4	This subclause is applicable	112 0112 0112 01	<sup>∞</sup> N//
1.6	Marking		N/A
1,5,0	Items a) and b) are applicable	1.8.0	S N/A
3.4	Approval testing	20, 00, 00, 00	N/A
3.4.3.2	Table 3 is applicable as described	CERT CERT CERT	N/A
4.1	Visual examination and check of dimensions	Vis ONIS ONIS ON	<sup>∞</sup> N//
A C	This subclause is applicable	(A) (A) (A)	N/A
4.2	Electrical tests	1.2.0. 1.2.0. 1.2.0.	5 N/
4.2.1	This subclause is applicable		N/A
4.2.5	This subclause is applicable	CERT CERT CERT	N/A
4.2.5.2	Only table 11 is applicable	his ohis ohis oh	N/A
£ 3	Values for test A apply		N/A
04,5,0	However, for capacitors in heating appliances the values for test B or C apply	115 CU 115 CU 115 CU 115 CU	S N/
4.12	Damp heat, steady state	alki alki alki	N//
11:5:0.	This subclause is applicable	1:5.0	5 N/
iti	Only insulation resistance and voltage proof are checked		N/A
4.13	Impulse voltage	vier wier wier on	≶~N/⁄
A .	This subclause is applicable		N/A
4.14	Endurance	erett, erett, erett,	N/
ai 01/10	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable		N//
4.14.7	Only insulation resistance and voltage proof are checked	ligiga Migigal Migigal	S N/A
A .	No visible damage		N/A

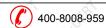
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	EN 60335-2-41+ EN 60335	) · · · · · · · · · · · · · · · · · · ·	<u> </u>
Clause	Requirement + Test	Result - Remark	Verdi
0,	0, 0, 0, 0, 0, 0,	2, 0, 0, 0	20
4.17	Passive flammability test	cept cept cept	N/A
118	This subclause is applicable	15'0 115'0 115'0	N/A
4.18	Active flammability test		N/A
, C	This subclause is applicable	Cett. Cett. Cett.	N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		_
	The following modifications to this standard are applic transformers:	cable for safety isolating	N/A
7	Marking and instructions		N/A
7.1	Transformers for specific use marked with:	Tegg, Tegg, Tegg,	N/A
01/10	-name, trademark or identification mark of the manufacturer or responsible vendor	ing one one of	N/A
25	-model or type reference:	C'STA C'STA C'STA	N/A
17	Overload protection of transformers and associated of	circuits	N/A
er co	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	e chi	N/A
22	Construction	200 00000000000000000000000000000000000	N/A
gri .s.c	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	Sight Sight Sight	N/A
29	Clearances, creepage distances and solid insulation	24 04 04	N/A
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	IS-CEPT ONES-CEPT ONES-CEPT	N/A
er vier	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	I's CERT I'S CERT	N/A
gris.c	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	is certain is certain	N/A
ET ONE C	For safety isolating transformers subjected to periodic voltages with a frequency exceeding 30 kHz, the clearances, creepage distances and solid insulation values specified in IEC 60664-4 are applicable, if greater than the values specified in items 2a, 2c and 3 in table 13 of IEC 61558-1	ISCEPT ON COMPACTOR	N/A
Н	ANNEX H (NORMATIVE) SWITCHES		_
d.	Switches comply with the following clauses of IEC 61	058-1, as modified below:	N/A
	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	is on one of	N/A
Eri C.C.	Before being tested, switches are operated 20 times without load	ESERI ESERI	N/A
8 01/10	Marking and documentation	The Ohis Ohis C	N/A
Ø.	Switches are not required to be marked	à à à	N/A

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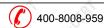




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	EN 60335-2-41+ EN 60335	5-1	
Clause	Requirement + Test	Result - Remark	Verdic
0,	0, 0, 0, 0, 0, 0,	0, 0, 0, 0,	,
	However, a switch that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	iscept ouiscept ouiscept	N/A
13	Mechanism		N/A
	The tests may be carried out on a separate sample	.500	N/A
15 0	Insulation resistance and dielectric strength	n on on o	N/A
15.1	Not applicable	EER EER EER	N/A
15.2	Not applicable	112 Mig Mig M	N/A
15.3	Applicable for full disconnection and micro-disconnection	cepti cepti cepti	N/A
17 🖑	Endurance Management	Mis ONIS ONIS ON	N/A
já có	Compliance is checked on three separate appliances or switches	SERÍ SERÍ	N/A
01/13	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless		N/A
Wis.C	otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335	is con wis con wis con	N/A
i d	Switches for operation under no load and which can be operated only by a tool, and	cert cert cert	N/A
J 0413	switches operated by hand that are interlocked so that they cannot be operated under load,		N/A
	are not subjected to the tests		N/A
i om	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	an our our of	N/A
01.12	Subclauses 17.2.2 and 17.2.5.2 not applicable	is die die	N/A
ří visící	The ambient temperature during the test is that occurring in the appliance during the test of clause 11 in IEC 60335-1	is ceri	N/A
, is . is	The temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1 (K)	istopii istopii istopii	N/A
20	Clearances, creepage distances, solid insulation and assemblies	coatings of rigid printed board	N/A
KI OVIS	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, asstated in table 24	its to ovisit ovisit ovi	N/A
1 01/15	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	112 0112 0112 01	N/A
E Wise	It is also applicable to creepage distances for functional insulation, across full disconnection and	is cen wis cen wis cen w	N/A

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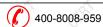
micro-disconnection, as stated in Table 24



Clau	ise	Requireme	ent + Test				Result	- Remark		Verd	lict	
				EN 6	0335-2-4	1+ EN 603	35-1					
0V iS	- CERT	Olis	Olig	ONIS	Page 57 o	of 81	Olis	Report N	o.: OViSC	E2104-03	2L	
SE												
5,10	NE JOSE											

,	The following modifications to this standard are applications to the standard are applications to the standard are applications.	able for motors having basic
ji d	insulation that is inadequate for the rated voltage of the	
8 11:5	Protection against access to live parts	is wis wis
8.1	Metal parts of the motor are considered to be bare live parts	chi chi chi
11 115	Heating (1) (1)	112 Mis Mis
11.3	The temperature rise of the body of the motor is determined instead of the temperature rise of the windings	is-clift wis-clift wis-clif
11.8	The temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material	.s.clfi .s.clfi .s.clfi
16	Leakage current and electric strength	1, 0, 0,
16.3	Insulation between live parts of the motor and its other metal parts is not subjected to the test	:5-CER 1:5-CER 1:5-CER
19	Abnormal operation	, 0, 0,
19.1	The tests of 19.7 to 19.9 are not carried out	CELL CELL
19.1.101	Appliance operated at rated voltage with each of the f	ollowing fault conditions:
i e	-short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	c.ctfri c.ctfri c.ctf
01/13	-short circuit of each diode of the rectifier	les Mes Other
	-open circuit of the supply to the motor	agh agh ag
04:5:0	-open circuit of any parallel resistor, the motor being in operation	15° 0115° 0115°
1,50	Only one fault simulated at a time, the tests carried out consecutively	.5.0th
22 0	Construction	0, 0,
22.I.101	For class I appliances incorporating a motor supplied by a rectifier circuit, the d.c. circuit being insulated from accessible parts of the appliance by double or reinforced insulation	is-cliffi Oris-cliffy Oris-cli
OVIS-C	Compliance checked by the tests specified for double and reinforced insulation	is chi Nis chi Nis ch
J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS	
Oligi	Testing of protective coatings of printed circuit boards IEC 60664-3 with the following modifications:	carried out in accordance
5.7	Conditioning of the test specimens	CERT CERT C
01/15	When production samples are used, three samples of the printed circuit board are tested	is one one

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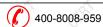




ViS-CER	Γ Page 58 of 81	Report No.: OViSCE	2104-032L
	EN 60335-2-41+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0,	2, 0, 0,	0, 0
5.7.1	Cold	eth eth eth	N/A
WiS'	The test is carried out at -25 ℃	Nis's Nis's Nis's	N/A
5.7.3	Rapid change of temperature		N/A
.5.0	Severity 1 is specified	Significant Signif	N/A
5.9	Additional tests	21/2 01/2 01/2	N/A
şi.	This subclause is not applicable		N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		_
gir .s.c	The information on overvoltage categories is extracted from IEC 60664-1	Schill Schill Schill	P
ol on	Overvoltage category is a numeral defining a transient overvoltage condition		PO
, OA!2.C	Equipment of overvoltage category IV is for use at the origin of the installation	Tipich Olipich Olipich	N/A
ri ovisici	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements	NIS-CERT ONIS-CERT	N/A
AT OVISA	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	JESCHER ONESCHER ONESCHER	N/A
AT OVIS-C	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	NESCHEN ONESCHEN	N/A
	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level	JIS-CEPT OVIS-CEPT OVIS-CEPT	N/A
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEAR DISTANCES	RANCES AND CREEPAGE	_
	Information for the determination of clearances and creepage distances	gift gift gift	N/A
M	ANNEX M (NORMATIVE) POLLUTION DEGREE		_
A	The information on pollution degrees is extracted from IEC 60664-1	ESERIE ESERIE	N/A
0,	Pollution	2, 0, 0,	N/A
A) 01/5-0	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment	NESCHEN ONESCHEN	N/A
pi .c.c	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	Esthi esthi esthi	N/A
0/1/2	Minimum clearances specified where pollution may be present in the microenvironment	The One of	N/A

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		OV iS-CERT		Page 59 of 81	Report No.: OViSC	E2104-032L
			335-1			
		Clause	Requirement + Test		Result - Remark	Verdict
		0,,	0, 0, 0,	0, 0,	0, 0, 0,	0, 0,
			Degrees of pollution in the m	nicroenvironment		N/A
		Ollisio	For evaluating creepage dist microenvironment are estable	tances, the following d	legrees of pollution in the	N/A

0,	0, 0, 0, 0, 0, 0, 0, 0,	0, 0
	Degrees of pollution in the microenvironment	N/A
	For evaluating creepage distances, the following degrees of pollution in the microenvironment are established:	N/A
RÍ OVIE CÉ	-pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence	N/A
pri ovis-ch	-pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	N/A
ar ovisiti	-pollution degree 3: conductive pollution occurs or dry non- conductive pollution occurs that becomes conductive due to condensation that is to be expected	N/A
ovisics	-pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	N/A
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST	<u> </u>
ki 9	The proof tracking test is carried out in accordance with IEC 60112 with the followed	owing N/A
7	Test apparatus	N/A
7.3	Test solutions	N/A
× 55	Test solution A is used	N/A
10 113	Determination of proof tracking index (PTI)	N/A
10.1	Procedure	N/A
,50	The proof voltage is 100 V, 175 V, 400 V or 600 V:	N/A
0,,	The test is carried out on five specimens	N/A
R OVIS-CE	In case of doubt, additional test with proof voltage reduced by 25 V, the number of drops increased to 100	N/A
10.2	Report	N/A
ONISIO	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	N/A
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF clause 30	<u> </u>
ot 04	Description of tests for determination of resistance to heat and fire	N/A
P	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANC USED IN WARM DAMP EQUABLE CLIMATES	ES —
ERI Wisch	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150 V, intended to be used in countries having a warm damp equal climate and that are marked "with symbol IEC 60417-6332 (2015-06)	ole N/A





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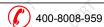
Sich	01/15	C. M. C.	ONISTON	ON'S Ch.	OVis-Ct.	ONISCOL	OVi5-Ch.	OV:S.CK	ON'S CH	ON'S CH.	ONIS CE ONI	
CERT												
2		OV iS-CERT				Page 60 d	of 81		Report N	o.: OViSC	E2104-032L	
(8)			EN 60335-2-41+ EN 60335-1									
SOL		Clause	Requireme	ent + Test				Result	t - Remark		Verdict	
		0,	0,,	0,,	0,,	0,	0,	0,	0,0	0,,	0, 0,	
SCERI		CERT ONIS-CERT	exceeding climate an	150 V, int d that are	tended to marked II	olied to clas be used in EC 60417-6 the protecti	countries 3332 (201	having a v 5-06), if lia	varm damp	equable	to N/A	

0,	0, 0, 0, 0, 0, 0	2, 0, 0, 0,	0
	Modifications may also be applied to class 1 appliance exceeding 150 V, intended to be used in countries hat climate and that are marked IEC 60417-6332 (2015-0 a supply mains that excludes the protective earthing of	ving a warm damp equable 06), if liable to be connected to	N/A
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 $^{\circ}\mathrm{C}$	I'E CELL ME CELL ME CELL	N/A
7.1	The appliance marked with the letters IEC 60417-6332 (2015-06)	eti eti eti	N/A
7.12	The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA	Carothi Carothi Carothi	N/A
i wisch	The instructions state that the appliance is considered to be suitable for use in countries having a warm damp equable climate, but may also be used in other countries	I'E'CEHI NE'CEHI NE'CEHI	N/A
£	If symbol IEC 60417-6332 (2015-06) is used, its meaning shall be explained.		N/A
11.8	The values of Table 3 are reduced by 15 K	15° Ni5° Ni5° N	♥ N/A
13.2	The leakage current for class I appliances not exceeding 0,5 mA	citi citi citi	N/A
15.3	The value of t is 37 ℃	lie Mie Mie Mie	N/A
16.2	The leakage current for class I appliances not exceeding 0,5 mA (mA):	cetti cetti cetti	N/A
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	The Office Office Of	N/A
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION O	F ELECTRONIC CIRCUITS	-
X	Description of tests for appliances incorporating elect	ronic circuits	N/A
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION		_
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in accordance with the requirements of this annex	Ischi or or or	N/A
R.1	Programmable electronic circuits using software		N/A
disch	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 constructed so that the software does not impair compliance with the requirements of this standard	Is chi oris chi oris chi	N/A
R.2	Requirements for the architecture	ne one one of	N/A

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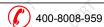
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	EN 60335-2-41+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verd
0,	0, 0, 0, 0, 0, 0,	2, 0, 0, 0	9
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 use measures to control and avoid software-related faults/errors in safety-related data and safety-related segments of the software	NESCHÉN ONESCHÉN ONESCHÉN ON	N//
R.2.1.1	Programmable electronic circuits requiring software i control the fault/error conditions specified in table R.2 structures:		N/A
ONIS	-single channel with periodic self-test and monitoring		N/
in a	-dual channel (homogenous) with comparison	Tigg. Tigg. Tigg.	N/A
07/10	-dual channel (diverse) with comparison	3/10 ONL ONLO 07	N/A
ERI WIS C	Programmable electronic circuits requiring software i control the fault/error conditions specified in table R. structures:		N/A
é i	-single channel with functional test		N/A
0,5	-single channel with periodic self-test	.5.0	SN/A
0,	-dual channel without comparison	2, 0, 0, 0	N/A
R.2.2	Measures to control faults/errors	CAR CAR CAR	N/A
R.2.2.1	When redundant memory with comparison is provided on two areas of the same component, the data in one area is stored in a different format from that in the other area	Jis dis dis dis di	N/A
R.2.2.2	Programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.2 and that use dual channel structures with comparison, have additional fault/error detection means for any fault/errors not detected by the comparison	Ser On One On One	N/A
R.2.2.3	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, means are provided for the recognition and control of errors in transmissions to external safety-related data paths	Jis-Clar Olis-Clar Olis-Clar	N/A
R.2.2.4	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the programmable electronic circuits incorporate measures to address the fault/errors in safety-related segments and data indicated in table R.1 and R.2 as appropriate	Nis-Cliff Onis-Cliff Onis-Cliff	N/A
R.2.2.5	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, detection of a fault/error occur before compliance with clause 19 is impaired	N'S-ELFT ON'S-ELFT ON'S-ELFT ON	N/A

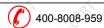
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	EN 60335-2-41+ EN 60335	5-1	
Clause	Requirement + Test	Result - Remark	Verdi
0,	0, 0, 0, 0, 0, 0	2, 0, 0, 0,	
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions	Its CERT WIS CERT WIS CERT	N/A
R.2.2.7	Labels used for memory locations are unique		N/A
R.2.2.8	The software is protected from user alteration of safety-related segments and data	Residence Merces Merces	N/A
R.2.2.9	Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired	ILESCEPH MIESCEPH MIESCEPH	N/A
R.3	Measures to avoid errors		N/A
R.3.1	General	. S. C. S. C. S. C.	N/A
iki citi	For programmable electronic circuits with functions remeasures to control the fault/error conditions specifie following measures to avoid systematic fault in the so	d in table R.1 or R.2, the	N/A
is of	Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1	is one one of	N/A
R.3.2	Specification	2, 02, 02, 03	N/A
R.3.2.1	Software safety requirements:	Software Id:	N/A
OVISO	The specification of the software safety requirements includes the descriptions listed	ing ones ones on	N/A
R.3.2.2	Software architecture	CERT CERT CERT	N/A
R.3.2.2.1	The specification of the software architecture includes the aspects listed	Document ref. No:	2
	-techniques and measures to control software faults/errors (refer to R.2.2);	NE CERT WESCER WESCER	S. CER.
	-interactions between hardware and software; -partitioning into modules and their allocation to the		CERT.
	specified safety functions; -hierarchy and call structure of the modules (control flow);	150 0150 0150 01	S N/A
	-interrupt handling; -data flow and restrictions on data access;	Septim Septim Septim N	SCH
	-architecture and storage of data; -time-based dependencies of sequences and data		- ERT
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis		N/A
R.3.2.3	Module design and coding	115,00 115,00 115,00	<sup>⊗</sup> N/A
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	CHÉ CHÉ CHÉ	N/A
di diga	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements		N/A

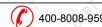
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710 02.11	EN 60335-2-41+ EN 603		2.2.2
Clause	Requirement + Test	Result - Remark	Verdict
0,	00 00 00 00 00	0, 0, 0,	2, 0
R.3.2.3.2	Software code is structured	CHI CHI CHI	N/A
R.3.2.3.3	Coded software is validated against the module specification by static analysis	distill distill distill	N/A
girs.cfi	The module specification is validated against the architecture specification by static analysis	.S.CER	N/A
R.3.3.3	Software validation	02, 02, 02, 0	N/A
Pri ONIS-CEE	The software is validated with reference to the requirements of the software safety requirements specification	ONIS-CERT ONIS-CERT	N/A
gi et	Compliance is checked by simulation of:	SERI SERI SERI	N/A
115.6	-input signals present during normal operation	115,00 115,00 115,00	N/A
V 0,	-anticipated occurrences	0. 0. 0. (	N/A
6, 5	-undesired conditions requiring system action	The the the	N/A

	TAE	BLE R.1 <sup>e</sup> – GENERAL FAULT	ERROR CON	DITIONS		
Component a	Fault/error	Acceptable measures b, c	Definitions	Document reference for applied measure	Document reference for applied test	Ver-dict
1 CPU 1.1 Registers	Stuck at	Functional test, or periodic self-test using either: static memory test, or word protection with single bit redundancy	H.2.16.5 H.2.16.6 H.2.19.6 H.2.19.8.2	ON'S CERT	is cell	S.CERT OF
1.2 VOID	.5.00	Con School School	30.	.S.C	.S. C.	SCO
1.3 Programme counter	Stuck at	Functional test, or Periodic self-test, or Independent time-slot monitoring, or Logical monitoring of the programme sequence	H.2.16.5 H.2.16.6 H.2.18.10.4 H.2.18.10.2	ON'S CERT	II.S.CERT OUT	SCHÉT OF
2 Interrupt handling and execution	No interrupt or too frequent interrupt	Functional test, or time-slot monitoring	H.2.16.5 H.2.18.10.4	OVIS-CERT	is citi	S.CERT
3 Clock	Wrong frequency (for quartz synchronized clock: harmonics/ sub-harmonic s only)	Frequency monitoring, or time slot monitoring	H.2.18.10.1 H.2.18.10.4	OVIS-CEPT	is chi	CHÍ O



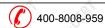


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	0	0	0	0		0		. ()	0	0	
EN 60335-2-41+ EN 60335-1											
Clause	Require	ement + Te	st				Result - Rem	ark		Verdict	
0,1	0,1	0,1	0,1	0,0	0,1	0	0,0	0,	0,0	0,1	

Clause	Requirement +	1001	Tresuit	- Kelliaik	Verdict
0,	0, 0,	0, 0, 0,	0,	0, 0,	0, 0
4. Memory 4.1 Invariable memory	All single bit faults	Periodic modified checksum, or multiple checksum, or word protection with single bit redundancy	H.2.19.3.1 H.2.19.3.2 H.2.19.8.2	Olis Ceri dis Ceri	Oli Schi
4.2 Variable memory	DC fault	Periodic static memory test, or word protection with single bit redundancy	H.2.19.6 H.2.19.8.2	olis dis	oli CERT
4.3 Addressing (relevant to variable and invariable memory)	Stuck at	Word protection with single bit redundancy including the address	H.2.19.8.2	olis-ceri dis-ceri	Oli Certi
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	JESTERI JESTERI	· Just City
5.1 VOID	0, 0,	0, 0, 0,	0,	0, 0,	0, 0
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2	OVIS-CEPT OVIS-CEPT	ON'S CEETE
6 External communica tion	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2 H.2.18.14	ovis-ceri dis-ceri	ONE CHAIN
6.1 VOID	011, 011,	011, 011, 011,	01/	011 011	9, 9
6.2 VOID	· CERT		ERI CERI	SERI SERI	CELET
6.3 Timing	Wrong point in time  Wrong sequence	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or comparison of redundant communication channels by either: reciprocal comparison independent hardware comparator Logical monitoring, or time-slot monitoring, or Scheduled transmission	H.2.18.10.4 H.2.18.18 H.2.18.10.3 H.2.18.15 H.2.18.3 H.2.18.10.2 H.2.18.10.4 H.2.18.18	OUISCEEN OUISCEN	OUIS CERT OF

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	0	0	0	0	0	
		EN 60335-2-	41+ EN 60335-	-1		
Clause	Requirement + Test			Result - Remar	k	Verdict
0,1	02	0, 0,	0, 0,	0,0	0,0	01

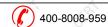
7 Input/output periphery	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13	olis-clifti	is citi	S.CELET
7.1 VOID	SER	CERT SERVE SERVE	Steel Steel	- CERT	CELE	CERT
7.2 Analog I/O 7.2.1 A/D and D/A-convert er	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13	ONIE CERT	ie on	
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13	ONIESCOL	lie or	
8 VOID	C. Carlot	CEPT CEPT CEPT	SEE SEE	C. CELTON	, dille	City
9 Custom chips d e.g. ASIC, GAL, gate array	Any output outside the static and dynamic functional specification	Periodic self-test	H.2.16.6	OVIS-CERT	is citi	SCEPT OFF

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

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

S	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED B NON-RECHARGEABLE OR NOT RECHARGED IN		_
Str Wise	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	Ne cett of of of	N/A
St. 1.65	rechargeable batteries (secondary batteries) that are not recharged in the appliance	1.5. Ct. 1.5. Ct. 1.5. Ct.	N/A
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied	chi chi chi	N/A
5.S.101	Appliances intended for use with a battery box are tested with the battery box supplied with the appliance or with the battery box recommended in the instructions	is one one on	N/A
5.S.102	Appliances are tested as motor-operated appliances.	his onis onis on	N/A
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless:	selfi selfi selfi	N/A
04/13	the polarity is irrelevant	113 01/13 01/13 01/1	N/A
A CAN	Appliances also marked with:		N/A

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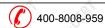
OV iS-CERT	Page 66 of 81 EN 60335-2-41+ EN 6033	Report No.: OViSCE2 5-1	
Clause	Requirement + Test	Result - Remark	Verdict
0,,	0, 0, 0, 0, 0, 0,	0, 0, 0, 0	, 0,
	-name, trade mark or identification mark of the manufacturer or responsible vendor:	SHALL SHALL SHALL	N/A
Mis	-model or type reference:	Mig Mig Mig Ch	N/A
	-IP number according to degree of protection against ingress of water, other than IPX0:		N/A
X	-type reference of battery or batteries:	(5) (3)	N/A
Elej Ch	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006	string of the string	N/A
CHI OHIS	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries		N/A
7.6	Additional symbols	1.5	N/A
7.12	The instructions contain the following, as applicable:	2. 0. 0. 0	N/A
ith, "ck	-the types of batteries that may be used:	CER, CER, CER,	N/A
01/1/2	-how to remove and insert the batteries	Mis Onis Onis On	N/A
A 5	-non-rechargeable batteries are not to be recharged		N/A
J' 5,C1	-rechargeable batteries are to be removed from the appliance before being charged	Nig.Cr Nig.Cr Nig.Cr	N/A
uri u	-different types of batteries or new and used batteries are not to be mixed		N/A
, 1,5,C	-batteries are to be inserted with the correct polarity	1:5:01 1:5:01 1:5:01 1	N/A
	-exhausted batteries are to be removed from the appliance and safely disposed of		N/A
71. 71.2.CA	-if the appliance is to be stored unused for a long period, the batteries are removed	Misigh Misigh Misigh	N/A
4	the supply terminals are not to be short-circuited	2. 0. 0. 0	N/A
11.5	Appliances are supplied with the most unfavourable	supply voltage between	N/A
ERT ONES	-0,55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries		N/A
Wis.	-0,75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only	Wist Mist Wist	N/A
SERT SER	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	CERT CERT CERT	N/A
19.1	The tests are carried out with the battery fully charged unless otherwise specified	Sir Oir Oir O	N/A
19.13	The battery does not rupture or ignite	CERT CERT CERT	N/A
19.S.101	Appliances are supplied with the voltage specified in 11.5. The supply terminals having an indication of polarity are connected to the opposite polarity, unless	The Other Other Of	N/A
01/13	such a connection is unlikely to occur due to the construction of the appliance	21/12 O/12 O/12 O/	N/A
19.S.102	For appliances with provision for multiple batteries, one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction	NIS-CLERY ON'S-CLERY ON	N/A





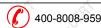
	EN 60335-2-41+ EN 60335	j-1	
Clause	Requirement + Test	Result - Remark	Verdict
0,	0, 0, 0, 0, 0, 0, 0	, 0, 0, 0,	0
25.5	The flexible leads or flexible cord used to connect an external battery or battery box in is connected to the appliance by a type X attachment	is the oris the oris the	N/A
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance	ris-ceri	N/A
25.S.101	Appliances have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection is suitable for this type of battery	ris-ceri oris-ceri oris-ceri ori	N/A
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box are so located or shielded that there is no risk of accidental connection between supply terminals	I'S CERT ON'S CERT ON'S CERT ON'	N/A
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless	listor alistor alistor ali	N/A
er ere	the battery is shielded by a barrier that meets the needle flame test of Annex E, or	ELEHT ELEHT ELEHT	N/A
ol oli	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
Ť	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC M	ATERIALS	_
eki ovis-cili	Requirements for non-metallic materials subject to direct or reflected UV-C radiation exposure and whose mechanical and electrical properties are relied upon for compliance with the	IF SERT OF SERT OF SERT	N/A
gri cer	Does not apply to glass, ceramic and similar materials	SERT SERT SERT	N/A
01/2	Tested as specified in ISO 4892-1 and ISO 4892-2, w	with the following modifications:	N/A
R) 25	Modifications to ISO 4892-1:		N/A
5.1.6	The UV-C emitter is a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m2 at 254 nm	is of our our	N/A
**************************************	Subclause 5.1.6.1 and Table 1 are not applicable	.500 .500 .500 .	N/A
5.2.4	The black-panel temperature shall be 63 $^{\circ}\mathrm{C}$ +/- 3 $^{\circ}\mathrm{C}$		N/A
5.3.1	Humidification of the chamber air is specified in part 2 when necessary	izion olizion olizion	N/A
9	This clause is not applicable		N/A
	Modifications to ISO 4892-2:	1.5.0	N/A
7.1	At least three test specimens are tested	y 0, 0, 0,	N/A
85°) (5E)	Ten samples of internal wiring is tested	CEER, CEER, CEER,	N/A
7.2	The specimens are attached to the specimen holders such that they are not subject to any stress	113 0113 0113 011	N/A
7.3	Apparatus prepared as specified	A A A	N/A

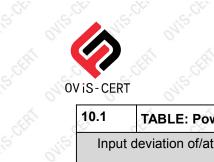
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Clause	EN 60335-2-41+ EN 603 Requirement + Test	Result - Remark	
0		INESUIL - INCINAIN	Verdict
	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h	on on on on	N/A
7.4	If used, a radiometer is mounted and calibrated surthat it measures the irradiance at the exposed surface of the test specimen	ch CHÁI	N/A
7.5	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1		N/A
St. Wigins	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2	2 Nistor Nistor	N/A
8	This clause is not applicable		N/A
		Olis-CERT Olis-CERT	Wis-Cliff





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\0\ \0\	/iS-CERT			ONIS' OVIE		ON'S ON'S		
	10.1	TABLE: Power	input deviation	· · · · · · · · · · · · · · · · · · ·	ethi ethi	e EFF	SUR PSUR	£
J115"	Input	deviation of/at:	P rated (W)	P measured (W)	ΔΡ	Required $\Delta P$	Remark	0,0
0	<u></u> 2	30V 50Hz	3080	3076.6	-0.11%	+15%	SVQ2200(F)	c Les
11:5"	Wis	-01151 0	15" -115"	115° 116°	750	Wisi - Wis	NiST NI	

<u> </u>	230V 50Hz	3080	3076.6	-0.11%	+15%	SVQ2200(F)	ctell.
ON'E	5' - N'S'	is' dis'	115°- 11°	37 375	Wisi Wi	i disi	3. N. C.
	<u> </u>		- CERT				CERT
10.2	TABLE: Curre	112	5"	5 .5	165	N/A	9
Current	deviation of/at:	I rated (A)	I measured (A)	ΔΙ	Required ∆ I	Remark	
7. i.e.		16,00 -16,000	11.62 <u>, C.</u>		1.6. <u>c.</u>		3. Chr.
0,	0° 6		0, 0,	0°	0, 0,		7 25
11.8	TABLE: Heating	g test	CELL	Coll. Coll.	- ciclin	SET SET P	CETT
A.	Test voltage (V)			. 200	6.8	254.4	A.

11.8	TABLE: Heating test	A A	(A)	A A A	P
311.0	Test voltage (V)	,G <sup>*</sup> ,G <sup>*</sup>	206.8	254.4	V F
ERI	Ambient (°C)		t2=23.2	t2=21.7	
Therm	nocouple locations		erature rise ed, Δ T (K)	Max. temperature rise limit, Δ T (K)	
		206.8V	206.8V 254.4V		
Supply	y cord	6.75	7.92	60	. 0
Metal	enclosure	0.22	0.19	60	ER.
Motor	capacitor	12.21	12.94	50	0
Interna	al wire	18.73	19.47	50	E.
Float	switch enclosure	3.22	3.67	60	01
Water	tempereture	38	.3℃	T.Max 40℃	81

1.2	Test voltage (V)		~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	11.5.0E.	254.4	7.62 —
ó, ó	Ambient, t1 (°C)			0, 01	20.9	
	Ambient, t2 (°C)			(%)	21.7	
Temperature	e rise of winding	R1 (Ω)	R2 (Ω)	ΔT (K)	Max. ΔT (K)	Insulation class
Motor Main	winding	0.63	0.79	64.06	95	Class 130(B
Motor Auxilia	ary winding	1.42	1.75	58.55	95	Class 130(B
Supplement	ary information: —	.S.C.	Con Con	SCO	SCIENT SCIEN	.5.00

S.CERT OVIS-CERT CERT OUTS OF E.C.F.R.T OVIS-C 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-CERT	Page 70 of 81	OVIS-CETT R	eport No.:	OViSCE2104	-032L
13.2	TABLE: Leakage current	, alph	a legal	ERÍ.	P
Heating a	ppliances: 1,15 x rated input (W):		,5,0	15° 15°	_
Motor-ope	erated and combined appliances: 1,06 x rated voltage	e (V):	54.4	_	
Leakage (	current between	I (m	۹)	Max. allowed	d I (mA)
L/N and a	ccessible unearthed parts	0.003		0.35peak	
L/N and a	ccessible metal enclosure	0.47	3 (1)	3.5	(g)
Suppleme	entary information: —	Wisio at	(5)	1:5' W:5'	Ji'

TABLE: Electric strength  Test voltage applied between:	Voltage (V)	Breakdown (Yes/No
Live part and earthed metal enclosure	1142	No Á
Internal wire and unearthed parts	1892	No.
Live part to accessible plastic enclosure	3284	No
Supplementary information: —	in the time	Seth. Seth.

-	ive part to	J accessible	plastic ci	lciosure		32	.04	X 140 X
S	Suppleme	ntary inform	ation: —	, CER	, CER.	CER. CER.	, certification of	ir. Cfr.
1,12	01/12	01/13	01/13	01/13	01/12	Mig Mig	0413 0413	01/13
1	4	TABLE:	Transien	t overvolta	ages 🚫			N/A
C	Clearance	between:		CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashover (Yes/No)
s	Suppleme	ntary inform	ation: —	, cft	CERT	CERT CERT	CERT C	ERI CERI
Ś	Nis.	N.E.	N.S.	Nie	Nie.	Nie Nie	Mig. Mig.	Nis.
4	6.2	TABLELL	ookogo o	ve of		9	0	. D

16.2	TABLE: Leakage current	0, (	2, 6	2, 0,	P
.00	nase appliances: 1.06 x rated voltage(V) .:	(2)	25	i4.4	
Three ph	ase appliances 1.06 x rated voltage divided by $\sqrt{3}$ :	:	24. 6	1, 0,	_
Leakage	current between	I (n	nA)	Max. allow	ed I (mA
Live part	s and surface of non-metal parts	JiS 0.0	006	0.2	.5
Live part	s and surface of earthed metal parts	0.5	502	3.5	5 🔬

Live pa	rts and surface of earthed metal parts	0.502	3.5			
Suppler	nentary information: —	Sight Sight Sight	and the state of t			
71, 011,	and the the the the the the the the					
16.3	TABLE: Dielectric strength	LERI LERI LERI	, di diP			
Test vol	age applied between:	Voltage (V)	Breakdown (Yes/No)			
Live par	t and earthed metal enclosure	1392	No gri			
Internal	wire and unearthed parts	1892	No No			
Live par	t to accessible plastic enclosure	3284	No			
JiS CEEN OVE	CELL ONE CELL ONE CELL ONE CELL ON	is-cell ouis-cell ouis-cell	OVIS-CERT OVIS-CERT OVIS-CE			

S-CEPT ON'S-CEPT SERT OUTS S 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. .c.CERT





19	Abnormal o	peration condi	tions		(A) (A)		P
Opera	tional charac	teristics	YES/NO		Operational	conditions	lo Co
Are there control the	electronic cir e appliance o	cuits to peration?	NO	0. 0.	\$ \$	0. 0	4
Are there position	"off" "or "sta	and-by",	NO	Mis Ch. Mis	C. M. S. C. T.	Nie Ch	15.CD
The unint appliance malfunction	ended operate results in date on	ion of the ngerous	N/A	C.CEPÍ	CERT CUERT	- CERT	S.CERÍ
Sub- clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2	N/A	N/A N/S	N/A	N/A is	N/A	N/A	N/A
19.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.6	N/A	N/A	⊗ N/A	N/A	Á N/A	N/A	N/A
19.7	Refer to clause 19.7	No hazard	N/A	N/A	N/A	N/A	P
19.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.10	N/A	N/A	ω N/A	N/A	∠ N/A	N/A	N/A
19.11.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.11.4.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.10.x	N/A	N/A	N/A	N/A	N/A	N/A	√P

	~~	~~	6			<u> </u>	\(\sigma\)
19.10.x	N/A	N/A	N/A	N/A	N/A	N/A	P
Supplementary	y information	15 <u> </u>	Wis	Wis c	Nie Mie	Wis	Mis M
á á	<u> </u>	á.	A A	- A		á á	
19.7	TABLE: A	bnormal op	eration, locke	d rotor/mov	ring parts	Y. CEL	P
07/2	Test volta	ge (V)		::	24	10 On	<u> </u>
SERI SERI	Ambient, f	t1 (°C)		:	20	2 (1)	_
Ollis	Ambient,	t2 (°C)		:	20	.9 0112	<u> </u>
Temperature ri	ise of windin	g	R1 (Ω)	R2 (Ω)	ΔT (K)	T (°C)	Max. T (°C)
Motor winding	0, 0,	. 0,	0,	0, - 0	1, -0,	115.27	225
Supplementary	y informatior	n:	CERT CERT	CERT	CERT CE	E CERT	CER
ON'iS	Ni2 ON	12 01/2	ONIS	ONIS C	Mis ONIS	Ollis	ovis ovi

Schill Oris Chri SERT OUTS S 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. .c.CERT





OV.C CEDI		Page 72	2 of 81	Repor	t No.:OViSCE	2104-032L
19.7	TABLE: Abnormal ope	eration, lock	ed rotor/mo	ving parts(SC)	RI LRI	01, 01,
, 11.6. io.	Test voltage (V)		:	. 24	10 115	_
á á	Ambient, t1 (°C)		:	20.2		
500	Ambient, t2 (°C)		:		0.5	_
Temperature	rise of winding	R1 (Ω)	R2 (Ω)	ΔT (K)	T (°C)	Max. T (°C)
Motor windir	ng viet viet viet	15	WiSi-	11.5° - 11.5°	114.57	225
Supplement	ary information: —	4 4	4	1	2 2	6

Test voltage (V)       : 240       —         Ambient, t1 (°C)       : 20.3       —         Ambient, t2 (°C)       : 20.4       —         Temperature rise of winding       R1 (Ω)       R2 (Ω)       ΔT (K)       T (°C)       Max. T (°C)         Motor winding       -       -       -       111.32       225         Supplementary information:       —       -       -       111.32       -	19.7	TABLE: Abnormal op	eration, locke	d rotor/mov	ing parts(OC)		ON PON
Ambient, t2 (°C)       20.4       —         Temperature rise of winding       R1 (Ω)       R2 (Ω)       ΔT (K)       T (°C)       Max. T (°C)         Motor winding       -       -       -       111.32       225	ari ari	Test voltage (V)		:	20	40	_
Temperature rise of winding R1 ( $\Omega$ ) R2 ( $\Omega$ ) $\Delta$ T (K) T ( $^{\circ}$ C) Max. T ( $^{\circ}$ C) Motor winding 111.32 225	51	Ambient, t1 (°C)			15 20	0.3	_ 5
Motor winding 111.32 225	eri seri	Ambient, t2 (°C)		:	20	0.4	
	Temperature ri	ise of winding	R1 (Ω)	R2 (Ω)	ΔT (K)	T (°C)	
Supplementary information: —	Motor winding	EER EER	(H) - (H)	- E. F. F.	clift) c	111.32	225
	Supplementary	y information: —	Wis	Nig.	11.5°	Wis	Wis Wis

19.13 TABLE: Abnormal operation, temp	perature rises	P CEP P
Thermocouple locations	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Supply cord	12.7	150
Metal enclosure	84.5	For ref.
Motor capacitor	45.6	For ref.
Internal wire	61.7	For ref.
Float switch enclosure	7.6	For ref.
Supplementary information: —	2, 2, 2, 2, 2,	0, 0, 0,

21.1 TABLE: Impact re	sistance	Onis Onis Onis	ONIE PO
Impacts per surface	Surface tested	Impact energy (J)	Comments
Metal enclosure	3 ,50	1.0	No damage
Float switch enclosure	9, 3	01.0	No damage
Supplementary information:		. the the th	h citin citin

Jen Dyisi CERT ONES CO E.C.F.R.T OVIS-C 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.





iS-CERT  24.1 TAB	LE: Critical componen	nts information	Mis Onis	OVIE OVIE	OVIE OV
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
Supply cord	Ningbo Qiaopu Electric Co., Ltd.	H05VV-F	3x1.0mm <sup>2</sup> 3x1.5 mm <sup>2</sup>	EN 50525-2-11	VDE* (40035976)
(Alternative)	HangZhou YongQiang Cable Co.,Ltd.	H07RN-F	3x1.0mm <sup>2</sup> 3x1.5 mm <sup>2</sup>	EN 50525-2-11	VDE* (40016862)
(Alternative)	Ningbo Qiaopu Electric Co., Ltd.	H05RN-F	3x1.0mm <sup>2</sup> 3x1.5 mm <sup>2</sup>	EN 50525-2-11	VDE* (40035531)
Plug	Ningbo Chengken Electric Appliance Co., Ltd.	ZK02-F	AC250V, 16A, IP44	VDE 0620-2-1	VDE* (40048542)
(Alternative)	Ningbo JinTing Nuclear Cable Co., Ltd	FY002-F	AC250V, 16A, IP44	VDE 0620-2-1	VDE* (40036347)
Motor capacitor	Zhejiang Shuangeng Electric Co., Ltd.	CBB60	450 V~, 50/60Hz, 10 μF,20 μF,25 μF, 30 μF,40 μF, 45 μF,S0 40/85/21	EN 60252-1	TUV* (R50331520)
(Alternative)	WenlingXinghuo Capacitors Factory	CBB60	AC450 V; 50/60Hz, 8 μF; 10μF; 12μF; 16μF; 40μF; 40/085/21; 40/070/21; S0	EN 60252-1	VDE* (40017696)
Motor protector	Jiangsu Yi Tong Control System Co., Ltd.	17AMG	AC 250V; 140°C	EN 60730-2-2 EN 60730-1	VDE* (40022710)
(Alternative)	Jiangsu Yi Tong Control System Co., Ltd.	17AMG	AC 250V; 130°C	EN 60730-2-2 EN 60730-1	VDE* (40022710)
(Alternative)	Jiangsu Changsheng Electric Appliance Co. Ltd.	BR-A2D	AC250 V; operating temp.: 145°C	EN 60730- EN 60730-2-2	VDE* (40015893)
Internal wire	Shanghai Shuntong Wire and Cable Co.,Ltd.	3270	600 V, 125℃, 16-25 AWG	EN 60335-1 EN 60335-2-41	tested with appliance
(Alternative)	Wenling An Tong Electric Co., Ltd.	JBF500	600 V, 125°C, 16-25 AWG	EN 60335-1 EN 60335-2-41	Tested with appliance
(Alternative)	Shanghai Runbang Cable Co., Ltd.	JYJ150	600 V, 125℃, 16-25 AWG	EN 60335-1 EN 60335-2-41	Tested with appliance
Motor	Tianjin Streampumps Industry Co.,Ltd	QDX	220-240V,50Hz, Class 130	EN 60335-1 EN 60335-2-41	Tested with appliance
Motor winding	Zhejiang Grandwall Electric Science & Technolog Co., Ltd.	xEIW/180 QZY-x/180	Class 180	EN 60335-1 EN 60335-2-41	UL* (E206121) + tested with appliance
Motor bobbin	Zhejiang Wenling No 2 Insulating Materials Factory	6640	GWT 850/750°C	EN 60335-1 EN 60335-2-41	UL* (E313361) + tested with appliance
Insulation tube	Ningbo Guanchi Electronics Co., Ltd.	2760	600 V, 200℃, VW-1	EN 60335-1 EN 60335-2-41	tested with appliance

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2	City.		Page 74 c	of 81	Report No.:OViSC	E2104-032L
0	IS-CERT					
5	(Alternative)	Nantong City Demei Electric Glass Fiber Co., Ltd.	2760	600 V, 200°C, VW-1	EN 60335-1 EN 60335-2-41	UL* (E331136) + tested with appliance
5	Crimp connector	Heavy Power Co.,Ltd.	CE2	150℃, 300 V	EN 60335-1 EN 60335-2-41	UL* (E113650) + tested with appliance
S	Level switch enclosure	Zhejiang Meiluo Mechanical and Electrical Co., Ltd.	PFS-5,ABS	Min thickness: 2,1mm	EN 60335-1 EN 60335-2-41	tested with appliance
5	(Alternative)	Zhejiang Florank Machinery Industry Co.,Ltd.	ABS	Min thickness: 2,1	IEC 60335-1 (2016) IEC 60335-2-41 (2012)	Tested with appliance

CERT	(Alternativ	/e)	Machinery Co.,Ltd.	Industry	ABS	CERT	mm	6	EC 6033 (2012)	5-2-41	applia	nce	CERT	
S' Wis	J':5'		Wi5r C	1:5° 01	S' W.	5	15° W	9	1.6	W.18'	die.	Nic.	5	
~	28.1	TAB	LE: Threa	ded part to	orque test	~~~	~		<u> </u>	- A		Р	4	
S.CER WE		reade lentific	d part ation	Diam	eter of thre (mm)	ad		n numbe , or III)	er	Appl (	ied torq	ue	CEL	
.65	Scre	w for	earthing		3.84	.61		II 🔬 🗋			1.2	.d	.01	
SCH	Supplem	entary	y informatio	n: C	5.Ct.	, Ct.	SCH	S.Ct.	, S. C.	1.5°Ct.	.5	, C	CEL	
0,	0,7		2, 0	2, 0,	0,1	0	, 0,	0	3	0,	0,	0,1		
CERT	29.1	TA	BLE: Clea	rances	CELEN	CERT	CERI	CERT	CERT	SER	i.	P P	CERT	
12 11/2	Ni's		Overvo	Itage catego	ory			.:	1/2	W.	11,5	Ni,	O	

29.1 TA	ABLE: Clearances					P
s' Nis'	Overvoltage catego	ory		: (%	WF.	Wig Mig
A A			Type of i	nsulation:		
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Functional (mm)	Supplemen tary (mm)	Reinforced (mm)	Verdict / Remark
330	0.5		- <del> (1</del> 1)	Str. St	k cer.	N/A
500	0.5	-0/1/2	01/13	3112 O1123	0/1/2	N/A
800	0.5	eth eth	-EFF	cti <del>d</del>	gi cigi	N/A
1 500	1.0	9°	Wist C	15" 115"	11-5-10	N/A
2 500	2.0	×	×	, at	\$ \$	P
4 000	3.5	500 1500	(50)	·s' - ·s'	×	P
6 000	6.0	0,0	0, 0	-0,	V 03	N/A
8 000	8.5	,5 <sup>1</sup> ,5 <sup>1</sup>		, ct <sup>2</sup>	E CER.	N/A
10 000	11.5	-9/1/2	01/2	31/2 O/1/2	0/1/2	N/A
CERT ONE CERT	OVIS-CERT OVIS-CERT OV	SCERI ONS CER	OVISCERT	Nischi Olisci	ERI ON'S CERT	OVIS-CEERIT OVIE

SCHRI OVISCHRI ,ctffi ovis-c .c.r.f.fr Olis.c 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.





iS-CERT					Page 75	0101		SCC VE	POIL IN	الاك0	OOLZI	04-032L
× ×	ARLE:	Creep	ane dis	tances.	basic, su	innleme	ntary a	nd reinfo	rced i	nsulat	ion	(P
Working vo	(	9100p	uge	C.	eepage dis					1001.5		- CV
(V)	ŭ				(mm) ollution de							
		1		2			3		Туре	of insu	ulation	Verdict
			Ma	aterial g	roup	Ma	aterial g	roup				
			I	II	IIIa/IIIb	I	II	Illa/Illb*	B**	S**	R**	
≤50	S	0,18	0,6	0,85	1,2	1,5	1,7	1,9	CERN	_		N/A
≤50	01:12	0,18	0,6	0,85	1,2	1,5	1,7	1,9	_	01,13	_	N/A
≤50		0,36	1,2	1,7	2,4	3,0	3,4	3,8	_	_	di.	N/A
125	.5	0,28	0,75	1,05	1,5	1,9	2,1	2,4	0,00	_	_	N/A
125	0,	0,28	0,75	1,05	1,5	1,9	2,1	2,4	_	0,	_	N/A
125	ć	0,56	1,5	2,1	3,0	3,8	4,2	4,8		_	S.	N/A
<u>250</u>	Nis.	0,56	1,25	1,8	2,5	3,2	3,6	4,0	<sup>5</sup> B1		_	5 P
250	~	0,56	1,25	1,8	2,5	3,2	3,6	4,0	_	S1	_	P
<u>250</u>	. 5,0	1,12	2,5	3,6	5,0	6,4	7,2	8,0	_	_	R1	S P
400	011	1,0	2,0	2,8	4,0	5,0	5,6	6,3		_	_	N/A
400	ć	1,0	2,0	2,8	4,0	5,0	5,6	6,3	_	e <sup>c</sup>	_	N/A
400	W. 65.	2,0	S 4,0	5,6	8,0	10,0	11,2	12,6	_	_	~1	N/A
500	0	1,3	2,5	3,6	5,0	6,3	7,1	8,0	_	_	_	N/A
500	کرے ک	1,3	2,5	3,6	5,0	6,3	7,1	8,0	_	25	_	N/A
500	01/10	2,6	5,0	7,2	10,0	12,6	14,2	16,0	_	_	0	N/A
>630 and ≤	800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	- (81	_	_	N/A
>630 and ≤	800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		119	_	S N/A
>630 and ≤	800	3,6	6,4	9,0	12,6	16,0	18,0	20,0		_	0.	N/A
>800 and ≤	1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	CER.	_	_	N/A
>800 and ≤	1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	_	0/1/2	_	N/A
>800 and ≤	1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0			\$	N/A
>1000 and ≤	1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	0	_	_	N/A
>1000 and ≤	1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		0,	_	N/A
>1000 and ≤	1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0		_	3	N/A
>1250 and ≤	1600	4,2	<sup>5</sup> 6,3	9,0	12,5	16,0	18,0	20,0	o	_	_	S N/A
>1250 and ≤	1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	_		_	N/A
>1250 and ≤	1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	_	_	Ø.,	N/A
>1600 and ≤	2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		_	_	N/A
>1600 and ≤	2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	_		_	N/A
>1600 and <	2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	_			○ N/A

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>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	al Ri			N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	_	1,5		S N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	_	_	0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	CER.	_	_	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	_	1,12	_	N/A
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	_	_	á	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	,C^ 0	_	_	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	_	0,,	_	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	_	_	E.	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	o´	_	_	<sup>S</sup> N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	_		_	N/A
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	_	_		N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		_	_	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	_	~	_	N/A
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	_	_	3	S N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		_	_	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		Ś	_	N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	_	_	03	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	28	_	_	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	_	,5	_	S N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	_	_	0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	o CERN	_		N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	_	3	_	N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	_	_	01	N/A

# Supplementary information:

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

S1: Between internal wire and electric enclosure: Cl.> 5.2 mm

R1: Between live part and enclosure: Cl.>10.4 mm

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

<sup>\*\*)</sup> B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation



(V)				ge distano		1)		Verdi	ct / Remark
	1		2			3			
		Ma	aterial gr	oup	Ma	aterial gr	oup		
		I	П	IIIa/IIIb	I	II	IIIa/IIIb*		
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	c.Clin	N/A
50 0	0,16	0,56	0,8	1,1	1,4	1,6	1,8	Mis	N/A
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	~45K	N/A
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	1.5	PS. <sup>1</sup>
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	) 	N/A
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	- Chr	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	110	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	1.5.	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	, 	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	, Softi.	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	1	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	CEPÉ	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	115	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	.5'CV	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	20	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	CERT	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	1,5	N/A

S.T.ERÍ OVIS-CÓ 400-8008-959

<sup>\*)</sup> Material group IIIb is allowed if the working voltage does not exceed 50 V OVIS-CERT OVIS-CERT

OVIS-CERT OVIS-CERT OVIS-CERT OVIS-CERT F1: Between L/N terminals on motor winding: Cr.=4,0 mm OVISCERII OVISCERII OVIS-CERT OVIS-CERT



30.1	TABLE: Ball Pr	essure Test of Therm	oplastics	agi agi	Ś
Allowed im	npression diamete	r (mm):	2.0	1;5;0 1;5;0 <u> </u>	_
Object/ Pa	art No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mr	n)
Float swtic	ch enclosure	See table 24.1	75,5	5 0.88	3
Connectio	n terminal	ar ar	125	1.02	
Motor bob	bin	See table 24.1	125	1.32	7

Object/				Glow wire	e test (GW	Γ); (℃)		
Part No./ Material	Manufacturer/ trademark	550	6	550	7	50	050	Verdict
	tradomant.	550	te	ti	te	ti	850	
Float swtich	See table 24.1	X	Cr	2.Cr.—	Onic	01/2 - 1/2 /	0/1/2/Ch	Wiscop 6
enclosure	CELET	CEPT		CERT	ELPT	cliff.	eri erri	
Connection terminal	0115 - 0115	-91's	- Ji	5 - Ni	O grife	Ouis	×	Ji <sup>S</sup> P
Motor bobbin	See table 24.1	Olice Olice	Oli	o.CEI	oct o ovie	Olie Olie	X	JII'S CP
Object/ Part No./	Manufacturer/ trademark	Glov		mmability ′FI), °C	index		nition temp. $\mathbb{C}$	Verdict
Material	liauciliaik	550	650	750	850	675	775	
. — 'Ch.	C. College	SELVE .	COLLEGE OF THE PARTY OF THE PAR	CELT.	Str.	CER - 15	St Ctr.	C. C.
The test spe	cimen passed th	ne glow wii	re test (G	WT) with i	no ignition	[(te – ti) ≤ 2:	s] (Yes/No):	No 6
f no, then su	urrounding parts	passed th	e needle	-flame test	of annex I	E (Yes/No)	isiq.	Yes
The test spe vith the glow	ecimen passed t v-wire (Yes/No)?	he test by	virtue o	f most of t	he flaming	material be	eing withdrawn	Yes
anition of th	e specified layer	r placed ur	nderneath	n the test s	necimen (	(es/No)	ia. ia.	No

#### Supplementary information:

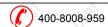
- 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF
- The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances

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30.2/30.2.4	TABL	E: Needle-	flame tes	t (NFT)	O.		0.	ki "thi	N/A
Object/ Part Material		Manufactur trademark	er/	Durat application flame (		Ignition specified Yes/	d layer	Duration of burning (tb) (s)	
Supplementa - NFT not rel - NFT not rel	evant (o	r applicable						f relevant VTI	M-0
Wis.Ca	ON'S OF	ONISION	ONISICE	04:5:021	ONISCE	ONISCE	ON'S OF	OVISICE	04:5:00
							OV:S:CY		





Report No.: OViSCE2104-032L

#### EN 62233

# 1 - EN62233(EMF)

# 1.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number
NARDA	Magnetic field probe 100vcm2	BN 2300/90.10	D-0008
NARDA	Exposure level tester	BN 2304/03	D-0007

# 1.2 Compliance Criteria

Appliances are deemed to comply with the basic restriction if the reference levels are not exceeded.

If a value exceeds the reference level, the coupling factor can be taken into account to show compliance with the basic restriction. The coupling factor has been determined to cover the worst case for the same type of appliances.

If the value still exceeds the reference level, this does not necessarily mean that the basic restriction is exceeded. Calculation methods can be used to verify whether the basic restriction is fulfilled.

# 1.3 Test Setup

Test procedure: IEC 62233;

Frequency range: 10Hz to 400 kHz;

Limits: EN 62233;

Sensor Location: Around the EUT

### 1.4 Test Methods

Frequency range of the used field-probe is 10 Hz – 400 kHz, area of probe is 100 cm<sup>2</sup>.

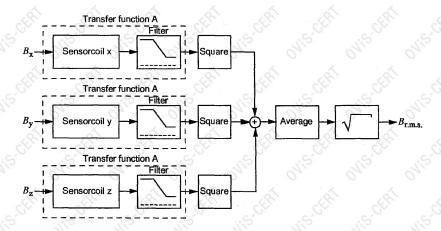
Directly on the enclosure of the EUT (distance = 30 cm) the maximum magnetic field strength was searched. At these points the measurements are done in the distance given by the standard. Observation time is in minimum 3 s on each point.

The schematic diagram of the reference method is as follows:



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### EN 62233



The weighted result is obtained from the following formula:

$$W = \frac{a_{\rm c}(r_1)B_{\rm r.m.s.}}{B_{\rm RL}}$$

# 1.5 Test Conditions

25 °C/ 35 °C (Before Test /After Test); Ambient Temperature: Relative Humidity: 67 %/67 % (Before Test /After Test);

Background noise level (% limit): 0.211% (Shielding Room)

Measure distance:

Couple factor: N/A (N/A=not applicable)

Power Supply: 254.4V, 50Hz

Operating conditions: Continuously, lowest temperature setting

# 1.6 Test Data and Records

Sensor Location	B <sub>r.m.s</sub> / B <sub>RL</sub>
Front	1.835%
Rear	1.861%
Left	1.877%
Right	1.842%

### Note:

The limits are the reference levels taken from the EU-COUNCIL RECOMMENDATION in accordance with the requirements of the standard EN 62233.

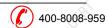
 $B_{r,m,s}$  is the r.m.s. value of the magnetic flux density;

B<sub>RL</sub> is the reference level of the magnetic flux density at 50 Hz.

# 1.7 Verdict

The EUT met the requirement

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Appendix I Photo documentation Water Pumps(Submersible Pump)

SVQ2200(F)

**Detail of:** SVQ2200(F)

View: [ ] general ] front ] rear ] right ] left [ X ] top [ ] bottom 

Detail of: SVQ2200(F)



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Appendix I Photo documentation Water Pumps(Submersible Pump) SVQ2200(F)

Detail of: SVQ2200(F)

View: [X] general ] front ] rear [ ] right ] left ] top [ ] bottom

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2. The copy of this report is invalid without a new seal of special stamp for OViS test

report and invalid if altered.

3. This report is invalid without seals or signatures of Tester, Checker and Approval.

4. If there is no special announcement in this report, the informat ion of producer and

samples is not identified by OViS, the customer is responsible for truth of the samples.

5. Objections to the test report must be submitted to OViS within 15 days.

6. The test results shown in this report is only applicable for the samples supplied

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7. "P" means "pass", "F" means "fail", "N/A" or "—" means "not applicable" and

/ "means "not test".

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