

TEST REPORT

EN 60335-2-51

Safety of Household and similar electrical appliances
Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations
EN 62233

Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure IEC 62233:2005 EN 60034-1

Rotating electrical machines
Part 1:Rating and performance

	Part 1:Rating and performance
Report Number	OViS202405008L-R1
Date of Issue	May 17, 2024
Update date	Jun. 11, 2024(More details refer to page 8)
number of pages	81/115 115 115 115 115 115 115
Testing Laboratory	OViS Testing Technology (Zhejiang) Co., Ltd.
Address	Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China
Testing location/procedure	The same as above
Applicant's Name	Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s.
Address	Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul
Manufacturer	Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s.
Address	Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul
Factory	Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s.
Address	Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul
Test specification:	
Standard	EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 +A15:2021+A16:2023, EN 60335-2-51:2003+A2:2012, EN 62233:2008+AC:2008, EN 60034-1:2010+AC:2010, BS EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+
	A2:2019+A15:2021+A16:2023, BS EN 60335-2-51:2003+A2:2012, BS EN 62233:2008+AC:2008, BS EN 60034-1:2010+AC:2010
Test procedure	CE approval
Non-standard test method	N/A
Test Report Form No	IEC 60335_2_51
Test Report Form(s) Originator	VDE OH'S OH'S OH'S OH'S OH'S
Master TRF	
Test item description	Circulation Pump
Trade Mark	
Model/Type reference	COSMO-C 32-12-180(Cover models see models list)
Ratings	220-240V,50/60Hz

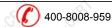
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0	i-CERT ting procedure and testing locati	Page 2 of 81 Report No.:OViS202405008
	Testing Laboratory:	OViS Testing Technology (Zhejiang) Co., Ltd.
Tes	ting Location/address	Building 31, Feiyue Park, Xiachen Street, Jiaojiang District,
01,	Associated Laboratory:	Taizhou City, Zhejiang Province, China N/A
Tes	ting Location/address	CUNOLOGY
	Tested by(name+signature):	Peniel Xu
\boxtimes	Approved by(+signature):	Kim Luo TEST SEAL S
	Testing procedure:TMP	N/A
0	Tested by(name+signature):	N/A ONE ONE ONE ONE O
	Approved by(+signature):	N/A
Tes	ting Location/address	N/A
	Testing procedure:WMT	N/A 1/5 / 1/
	Tested by(name+signature):	N/A
81.	Witnessed by(+signature):	N/A die die die die
	Approved by(+signature):	N/A-LEFT CELEFT CELEFT CELEFT
Tes	ting Location/address	WA ohis ohis ohis ohis ohis o
	Testing procedure:SMT	N/A CHINA CH
	Tested by(name+signature):	N/A
	Approved by(+signature):	N/ACCCC IIS CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
	Supervised by(+signature).:	N/A AFF AFF AFF
Tes	ting Location/address	NA OIE OIE OIE OIE
	Testing procedure:RMT	N/A
Ō _{II}	Tested by(name+signature):	N/A
	Approved by(+signature):	N/A
0,0	Supervised by(+signature).:	N/A

ERÍ OVIS-CÉRÍ 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.





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

Appendix I - Photo documentation - attachment 5 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+A15:2021+ A16:2023,

EN 60335-2-51:2003+A2:2012,

EN 62233:2008+AC:2008,

EN 60034-1:2010+AC:2010,

BS EN 60335-1:2012+A11:2014+A13:2017+

A1:2019+A14:2019+A2:2019+A15:2021

+A16:2023,

BS EN 60335-2-51:2003+A2:2012,

BS EN 62233:2008+AC:2008,

BS EN 60034-1:2010+AC:2010

Full tests were carried out on model:

COSMO-C 32-12-180.

Testing location:

OViS Testing Technology (Zhejiang) Co., Ltd. Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, 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.



Serial No.

Class F 220~240V TF 95 50/60Hz **IP44** 1.0MPa



K	H(M)	P _{1(w)}	J(A)	Q (m ³ /h)
MIN	7,6	7	0.10	115° -
MAX	12	180	1.53	10



MADE IN TÜRKİYE

EEI≤0.23 Circulation Pump







Turkey

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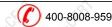






Test item particulars:			~			
Test item particulars: Supply connection		upply cord :	with plug	CELLY.	C. C. C.	
Nature of supply			with plug			
		.c. 🔍				
Class of protection against electric shock		P44				
Degree of protection against moisture						
Type of cord attachment		4 4				
Portable appliances						
Fixed appliances						
Built-in appliances		_				
Switch	~ ~	S CERI				
Thermostat		J 415				
without an OFF position		5 0				
Self-resetting thermal cut-out						
Non-self-resetting thermal cut-out		11:5				
Voltage-maintained non-self-resetting thermal cut-o		0,,				
Contact opening > 3 mm in each pole		2 (E)				
Thermal link	110	1,5				
Electronic circuit	0\					
with software class	i	lo ce				
Protective electronic circuit	:					
with software class		lo O				
Programmer, timer, switching devices	: 2	ig, ė				
Remote operation	C.V	JS.CV				
Appliances - with supply cord	1/10					
- with supply cord fitted with a plug						
Motor with capacitor in auxiliary winding		.S.CV.				
Series motors incorporated		01/12				
Three-phase motor						
with protective device		- CELL				
Used in vehicles or on board ships or aircraft,	01/13	0/1/2				
additional requirements may be necessary	: [. d				
Additional requirements are specified by the national health authorities	200] .c.Cti				
the national authorities responsible for the protect		0/1/2				
of labour	i L	20.00				
the national water supply authorities						
similar authorities		7 1/1/2	Mis	Ollis	Ollis	Oliv
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Possible test case verdicts:

- test case does not apply to the test object N/A

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

Summary of testing:

Date of receipt of test item...... Apr. 25, 2024

Date(s) of performance of test...... May 10, 2024 to May 16, 2024

Sample appearance and function are in

Yes

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

Ambient temperature.....

15-20℃

C.C.

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 \square comma $/ \boxtimes$ 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.

General product information:

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

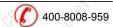
For detail, see relrbant information on General product information

BS standards are identical with EN standards

These 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

All models:50/60Hz,I.C.F,Max. liquid temperature:95 °C ○

Model	Rated Voltage (V)	Input Power (W)	H.max. (m)	Q.max. (m³/h)	IP
GEX-H 15-70-130	220-240	65	8	3.5	42
MASTER-H 15-70-130	220-240	65	8 Nie	3.5	42
GEX-H 15-80-130	220-240	65	8	3.5	42
MASTER-H 15-80-130	220-240	65	S' 8 119	3.5	42
GEX-H 25-70-130	220-240	65	8	3.5	42
MASTER-H 25-70-130	220-240	65	C.C. 8 .c	3.5	42
GEX-H 25-80-130	220-240	65	8 011	3.5	42



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CDT (S)	Page 6 o	f 81		Report No.:	OVisa
MASTER-H 25-80-130	220-240	65	8	3.5	42
GEX-S 15-70-130	220-240	50	8	3.2	42
MASTER-S 15-70-130	220-240	50	8	3.2	42
GEX-S 15-75-130	220-240	50	8	3.2	42
MASTER-S 15-75-130	220-240	50	8	3.2	42
GEX-S 25-70-130	220-240	50	8	3.2	Á 42
MASTER-S 25-70-130	220-240	50	15 8 1	3.2	42
GEX-S 25-75-130	220-240	50	8	3.2	<u> </u>
MASTER-S 25-75-130	220-240	50	8	3.2	42
GEX-C 15-80-130	220-240	65	8	3.5	42
MASTER-C 15-80-130	220-240	65	8	3.5	42
GEX-C 25-80-180	220-240	65	8 011	3.5	42
MASTER-C 25-80-180	220-240	65	8	3.5	ý 42
GEX-C 25-80-130	220-240	65	8	3.5	42
MASTER-C 25-80-130	220-240	65	8	3.5	Á 42
GEX-C 32-80-180	220-240	65	8	3.5	42
MASTER-C 32-80-180	220-240	65	8	3.5	42
GEX-C 15-60-130	220-240	45	6	3 2	42
MASTER-C 15-60-130	220-240	45	6 0	30	42
GEX-C 25-60-130	220-240	45	6	CEP 3	42
MASTER-C 25-60-130	220-240	45	6 01	3	42
GEX-C 25-60-180	220-240	45	6	3	g 42
MASTER-C 25-60-180	220-240	45	6	3,5	42
GEX-C 25-70-130	220-240	55	7	3.2	42
MASTER-C 25-70-130	220-240	55	, S. C. 7	3.2	42
GEX-C 32-60-180	220-240	45	6	3	42
MASTER-C 32-60-180	220-240	45	6	, diff. 3	42
GEX-C 15-40-130	220-240	25	4 011	2.5	42
MASTER-C 15-40-130	220-240	25	4	2.5	42
GEX-C 25-40-130	220-240	25	1 ¹⁵ 4 11	2.5	42
MASTER-C 25-40-130	220-240	25	4	2.5	42
GEX-C 25-40-180	220-240	25	.5 4	2.5	42
MASTER-C 25-40-180	220-240	25	4	2.5	42
GEX-C 32-40-180	220-240	25	4	2.5	42
MASTER-C 32-40-180	220-240	25	4 011	2.5	42

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CERT WIS WIS WIS	Page 7 c	of 81	11,2	Report No.:	OViS20
MASTER-C 25-100-130	220-240	70	10	4	42
GEX-C 15-100-130	220-240	70	10	4 .5	42
MASTER-C 15-100-130	220-240	70	10	4	42
GEX-C 32-100-180	220-240	70	10	(th 4	42
MASTER-C 32-100-180	220-240	70	10	4	42
COSMO-C 25-8-180	220-240	140	8	8	Á 44
COSMO-C 25-10-180	220-240	120	10 11	9	44
COSMO-C 25-12-180	220-240	185	12	10	<u> 4</u> 4
COSMO-C 32-8-180	220-240	140	8	8 .5	44
COSMO-C 32-10-180	220-240	160	10	9	44
COSMO-C 32-12-180	220-240	180	12	10	44
COSMO-S 15-80-130	220-240	140	8 011	8	44
COSMO-S 25-80-130	220-240	140	8	8	Á 44
GEX GEX	230	60	16 8 Ni	2.1	42
GEX-MSS	230	60	8	2.1	Á 42
GEX-FCI	230	60	15.8	2.1	42
GEX-NER	230	60	8	2.1	42
WEX	230	60	8	2.1	42
WEX-FCI	230	60	8 0	2.1	42
WEX-INT	230	60	8	2.1	42
TEX-FCI	230	60	8 011	2.1	42
TEX-C5	230	60	8	2.1	Á 42
TEX-SMART	230	60	15 8 119	2.1	42
TEX-AR	230	60	8	2.1	42
TEX-SMART-R	230	60	8	2.1	42

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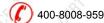
Modification on the appliances:

The original Test Report No. OViS202405008L issued on May 17, 2024 was modified on Jun. 11, 2024 to include the following changes:

- 1. The manufacturer and factory information was modified.
- 2. The trademark was added.

After construction review and verification of electrical spacing, no additional tests were considered necessary.

The added contents Report No. is OViS202405008L-R1.



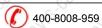


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EN 2000E 2 EN 2000E 4							
EN 60335-2-51+ EN 60335-1							
Clause Requirement + Test Result - Remark	Verdict						

5	GENERAL CONDITIONS FOR THE TESTS		
12	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.	Ohie Ohie Ohie	Poli
5.7:2	The water temperature at the inlet is maintained between 0 °C and –5 °C of the value corresponding to the TF class of the pump (IEC 60335-2-51)	95℃	CEPT P
	For circulation pumps intended to be located within the enclosure of a boiler, the tests of Clauses 10, 11 and 13 are carried out at an ambient temperature of 55 °C or at the temperature specified in the instructions, whichever is higher (IEC 60335-2-51)	CERT OUTS CERT OUTS CERT OUTS	N/A
5.101	Circulation pumps having a three-phase motor that does not incorporate a protective device are installed with an appropriate device, in accordance with the instructions (IEC 60335-2-51)	THE SERVE STREET	N/A
6	CLASSIFICATION		
6.1	Circulation pumps shall be class I, class II or class III (IEC 60335-2-51)	Class I	P
CERT ON	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part		N/A
6.2	Circulation pumps shall be at least IPX2 (IEC 60335-2-51)	IP44	P
	Protection against harmful ingress of water		P
6.101	Circulation pumps shall be of one of the classes shown in Table 101	20 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	Cr. P
7	MARKING AND INSTRUCTIONS		
7.1	Rated voltage or voltage range (V)	220-240V	(E) P
12	Symbol for nature of supply, or:	Miz Miz Miz	N/A
6	Rated frequency (Hz):	50/60Hz	P
C.CC	Rated power input (W), or:	180W	Р
01	Rated current (A):	1.53A	PO
CERT	Manufacturer's or responsible vendor's name, trademark or identification mark:	See copy of marking plate	CIPÍ P
	Model or type reference:	COSMO-C 32-12-180	Poli
, A.	Symbol IEC 60417-5172, for class II appliances		N/A
5.00	IP number, other than IPX0	IP44	Р ,
0	Symbol IEC 60417-5180, for class III appliances, unless		N/A
CER.	the appliance is operated by batteries only, or	SELV. SELV. SELV.	N/A
12 01	for appliances powered by rechargeable batteries recharged in the appliance	Oliza Oliza Oliza	N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	SER SERI	N/A

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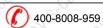




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	EN 60335-2-51+ EN 6033	0-1	
Clause	Requirement + Test	Result - Remark	Verdict
is chair	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds	JEPH OVIS-CEPH OVIS-CEPH OVIS	N/A
, Car	extra-low voltage Circulation pumps shall be marked with (IEC 60335-2	- 51)·	Р
2	- the TF class	412 412	БОД
~	(IEC 60335-2-51)	TF95	~
Sicher (- the direction of the water flow (IEC 60335-2-51)		Р
CERT OF	- the direction of rotation (for pumps having three-phase motors) (IEC 60335-2-51)		N/A
Si Oli	- the rated current (for pumps having three-phase motors if a protective device has to be installed in the fixed wiring) (IEC 60335-2-51)		N/A
7.2	Warning for stationary appliances for multiple supply	1.5.0	N/A
0	Warning placed in vicinity of terminal cover	0, 0, 0,	N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	SEP CICHE CICHE	N/A
03	Different rated values marked with the values separated by an oblique stroke	04, 04, 04,	N/A
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible.	SERI MESCERI MESCERI	N/A
S CERT OF	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram.	SEPT NESSEPT NESSEPT NES	N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless	SERI JESCERI JESCERI	N/A
, at	the power input is related to the arithmetic mean value of the rated voltage range		N/A
S.CC. 01	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	St. Olisics Olisics. Olis	N/A
7.6	Symbol for nature of supply placed next to rated voltage	ghi ghi ghi	N/A
2	Symbol for class II appliances placed unlikely to be confused with other marking	Mis Mis Mis	N/A
CERT	Units of physical quantities and their symbols according to international standardized system	SHE SHE	CERTP
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	of of of of	N/A
CER	correct mode of connection is obvious	St. Cott. Cott.	N/A
7.8	Except for type Z attachment, terminals for connection as follows:	n to the supply mains indicated	РОЙ
CERT	- marking of terminals exclusively for the neutral conductor (letter N)	SER SERVE SERVE	N/A

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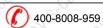




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	EN 60335-2-51+ EN 60335	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
CERT	- marking of protective earthing terminals (symbol IEC 60417-5019)	SEPT SEPTE	CEP P
0,	- marking of functional earthing terminals (symbol IEC 60417-5018)	0112 0113 011	N/A
CERT	- marking not placed on removable parts	eth eth eth	CE P
7.9	Marking or placing of switches which may cause a hazard	Oliza Oliza Oliza	N/A
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	SERÍ ISSERÍ ISSERÍ	N/A
0	This applies also to switches which are part of a control	04 04 04	N/A
Sichting,	If figures are used, the off position indicated by the figure 0		N/A
0	The figure 0 indicates only OFF position, unless no confusion with the OFF position	0, 0, 0,	N/A
7.11	Indication for direction of adjustment of controls	of the country of the country	N/A
7.12	Instructions for safe use provided	ON13 ON13 ON1	Poli
CERT	Details concerning precautions during user maintenance		P
S'	The instructions state that:	11.5° 11.5° 11.6	P
	-The instruction concerning persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge is not applicable (IEC 60335-2-51)	CERT OVIS-CERT OVIS-CERT	CERT
S.CERT	-The instruction regarding supervision of children is not applicable (IEC 60335-2-51)	ski isteki isteki	CLEPP
Sickhi	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided	Stri Seretri Seretri	N/A
0	Instructions for class III appliances state that it must only be supplied at SELV, unless	0, 0, 0,	N/A
Siction .	it is a battery-operated appliance, the battery being charged outside the appliance		N/A
0	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated :	0, 0, 0,	N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	officer of section	N/A
7.12.1	Sufficient details for installation supplied	SERT SERT SERT	CET P
5	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	at at at	N/A
5.0th 01	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	The Only Control of the Only	N/A
CERT	The installation instructions shall state the substance (IEC 60335-2-51)	of the following:	CEP P

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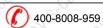




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	EN 60335-2-51+ EN 60335		
Clause	Requirement + Test	Result - Remark	Verdict
CEL	- the maximum flow rate or total head	Carlo Carlo	N/A
12 0	the maximum ambient temperature at which the pump is to be used	Mis Ones One	Poi
CERT	- the maximum system pressure, which shall not be less than:	SEFT SEFT	CERP
6	0.6MPa for pumps for heating systems	Wis Wis Wi	Pji
	1.0MPa for pumps for service water systems		N/A
CEL	- the intended orientation of the pump		P
c.ctri	 a protective device is to be installed in the fixed wiring and its characteristics are to be specified (for pumps having a three-phase motor not incorporating a protective device) 	THE CHE CHE	N/A
S-CERT O	- for the thermal insulation of circulation pumps in heating systems, only the supplied kit or a kit made available by the manufacturer shall be used. It shall be ensured that the drain openings of the motor are not sealed after installation of the thermal insulation	THE ONE CHE	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	CHÍ CHÍ CHÍ CHÍ	N/A
7.12.3	with the wiring rules Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected	of of other of	N/A
7.12.4	Instructions for built- in appliances:	Cer. Cer. Cer.	N/A
(3	- dimensions of space	Onis Onis Oni	N/A
6	- dimensions and position of supporting and fixing	d d d	N/A
5.00	- minimum distances between parts and surrounding structure	115 CE 115 CE 116	N/A
- (A)	- minimum dimensions of ventilating openings and arrangement		N/A
6	- connection to supply mains and interconnection of separate components	is wisco	N/A
- CEPT	 allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless 	ELFÉ ELFÉ ELFÉ	N/A
	a switch complying with 24.3	Mis Mis Mis	N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
5	Replacement cord instructions, type Y attachment	115' 115' 11'S	Р
O	Replacement cord instructions, type Z attachment	0 0 0	N/A
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard	SERRY ONIS CERT ONIS CERTA	N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	CELL CELL CELL	P

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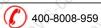


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OViS-CERT		Page 13 01 81	Report No.: OVIS2024	05008L-R1
	E	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test		Result - Remark	Verdict
7.12.8	Instructions for appliances	connected to the water ma	ains:	Ţ. P

Clause	Requirement + Test	Result - Remark	Verdict
4		4 4 4	
7.12.8	Instructions for appliances connected to the water ma	ains:	P
12	- max. inlet water pressure (Pa)	Wis Wis Wis	Pji
6	- min. inlet water pressure, if necessary (Pa):	\$ \$ \$	N/A
S'CETT ON	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	Str Ovisible Ovisible Ovis	N/A
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance	steri	N/A
07	These instructions may be supplied with the appliance separately from any functional use booklet		N/A
S. CETT	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches		N/A
CERT ON	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD	the the the	N/A
15° 04'	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD	alising alising alie	N/A
7.13	Instructions and other texts in an official language	English	P
7.14	Marking clearly legible and durable, rubbing test as specified	Ohis Ohis Ohis	Poli
CEPA	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified	SERIE SERIE	CERTP
12 01	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm	Wis Wis Wis	Poli
S CERT	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless	SERT ISSERT ISSERT	CERÍP
0,	contrasting colours are used	0, 0, 0,	N/A
CERN	Markings checked by inspection, measurement and rubbing test as specified	SER SER SER	N/A
7.15	Markings on a main part	Mis Mis Mis	P
CEPÁ	Marking clearly discernible from the outside, if necessary after removal of a cover		ZEÉP
15' 01'	For portable appliances, cover can be removed or opened without a tool	01/2,0 01/2,0 01/2	N/A
S-CERT N	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	cleri	N/A
CERT O.	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	SEE SEE	Cff _l
is ovi	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	EKI EKK EKK	Poli
15" 01	Symbol IEC 60417-5018 is placed next to the symbol IEC 60417-5172 or IEC 60417-5180	Wisis Wisis Wil	N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	EFF SEFF	CERTP

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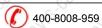


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OVIDECITI	1 1	1 1	1 1 1	1
EN 60335-2-51+ EN 60335-1				
Clause	Requirement + Test		Result - Remark	Verdict

8	PROTECTION AGAINST ACCESS TO LIVE PARTS		
8.1	Adequate protection against accidental contact with live parts	onie onie onie	Poji
8.1.1	Requirement applies for all positions, detachable parts removed	chi chi	cti ^P P
S	Lamps behind a detachable cover not removed, if conditions met	die die die	N/A
CERT	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	SHÍ SHÍ SHÍ	N/A
5	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	die die die	Poi
CERT	Use of test probe B of IEC 61032 through openings, with a force of 20 N: no contact with live parts	EFFT EFFT	P
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts	eki eki eki olis	N/A
(5)	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	a disir disir dis	N/A
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements.	SER. Miscelly. Miscelly.	N/A
C.CER.	For a single switching action obtained by a switching device, requirements as specified	cliff colliff colliff	N/A
, regin	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug	. સુર્વે કરાઈ કરાઈ છો. - સુર્વે કરાઈ કરાઈ છો.	N/A
8.1.4	Accessible part not considered live if:	1,5,0 1,5,0	P
	- safety extra-low a.c. voltage: peak value not exceeding 42,4 V		N/A
C.C.C.	- safety extra-low d.c. voltage: not exceeding 42,4 V	0.6V	Р
	- or separated from live parts by protective impedance	011, 011, 011	N/A
CERT	If protective impedance: d.c. current not exceeding 2 mA, and	SERÎ SERÎ SERÎ	N/A
1/2	a.c. peak value not exceeding 0,7 mA	Mis Mis Mi	N/A
CERT	- for peak values over 42,4 V up to and including 450 V, capacitance not exceeding 0,1 μF		N/A
5	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	Wist dist	N/A
CEPT	 for peak values over 15 kV, the energy in the discharge not exceeding 350 mJ 		N/A
8.1.5	Live parts protected at least by basic insulation before	e installation or assembly:	P
4	- built-in appliances	0 0 0	N/A
CER	- fixed appliances	SER SER	CEP P
15	- appliances delivered in separate units	1/18 1/18 -1/19	N/A

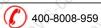
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OVi5-CERT	Page 15 of 81 Report No.: OViS202405008L-R1 EN 60335-2-51+ EN 60335-1					
01			1			
Clause	Requirement + Test	Result - Remark	Verdict			
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only Only possible to touch parts separated from live	CLERT ON'S CLERT ON'S CLERT ON'S	CHÎ P			
	parts by double or reinforced insulation	Cer. Cer. Cer.	CEP P			
9	STARTING OF MOTOR-OPERATED APPLIANCES					
CERT	Requirements and tests are specified in part 2 when necessary	ghi ghi ghi	N/A			
10	POWER INPUT AND CURRENT					
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1.:	(see appended table)	SEEFE P			
is cital	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period.	OHIS OHIS OHIS OHIS	Politi			
·SiGET	Otherwise the power input is the arithmetic mean value		N/A			
e ciri	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A			
15	the rated power input is related to the arithmetic mean value	Onies Onies Onies	N/A			
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	CERTP			
is cliff	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period.	Stri Oris-Ctri Oris-Ctri Oris	PO			
CERT	Otherwise the current is the arithmetic mean value.	THE STATE STATE	N/A			
1900	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A			
S. CERT	the rated current is related to the arithmetic mean value of the range		N/A			
11	HEATING					
11.1	No excessive temperatures in normal use	eth, eth, eth,	CER P			
11.2	The appliance is held, placed or fixed in position as described	0115 0115 ONI	Poli			
is cert	Circulation pumps that are only fixed by the water pipes are positioned against one wall of the test corner and away from the other (IEC 60335-2-51)	SERÍ NIS-SERÍ NIS-SERÍ	N/A			
11.3	Temperature rises, other than of windings, determined by thermocouples	ART CHAIN CHÁI	P			

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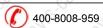




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EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
C. CERT	Temperature rises of windings determined by resistance method, unless	SERT COERT COERT	N/A
01	the windings are non-uniform or it is difficult to make the necessary connections	94,2 94,2 94,	Poli
S-CERT OV	The temperatures t1 and t2 are the ambient temperatures of the environment in which the pump is installed, for instance inside the enclosure of a boiler (IEC 60335-2-51)	CERT ON'S CERT ON'S CERT ON'S	N/A
11.4	Heating appliances operated under normal operation at 1,15 times rated power input (W)	71/2, 71/2, 71/2	N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0,94 and 1,06 times rated voltage (V):		P
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0,94 and 1,06 times rated voltage (V)		N/A
11.7	Circulation pumps are operated until steady conditions are established (IEC 60335-2-51)	or one one one	Ch. b
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	CER P
12 01	If the temperature rise of a motor winding exceeds the value of table 3, or	Ohio Ohio Ohio	Poli
CERT	if there is doubt with regard to classification of insulation,		N/A
	tests of annex C are carried out	Nie Nie Nie	N/A
6	Sealing compound does not flow out		P
	Protective devices do not operate, except	Str. Str. Str.	S ^(C) P
10	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	Mig Mig Mig	N/A
S-CERT OV	The temperature rise limits of pumps located within the enclosure of a boiler are reduced by the difference between the ambient temperature at which the test is carried out and 25 °C (IEC 60335-2-51)		CEN/A
5.50	The temperature rise of the external enclosure is not measured (IEC 60335-2-51)	ONIS ONIS ONIS	CV P
S'CERÍ OV	For circulation pumps in which water flows through the limits for windings are increased by 5K. The temperature further by: (IEC 60335-2-51)		N/A
a CRIT	- 5K, if the winding insulation is class 130(B)	aki aki aki	N/A
(5,°)	- 10K, if the winding insulation is class 155(F) or 180(H)	Wist Mist Mis	N/A
SCERT	For circulation pumps in which water flows through the motor, the increase of 5 K allowed by footnote a to Table 3 does not apply (IEC 60335-2-51)	SERT WESCHELL WESCHELL	N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH	AT OPERATING TEMPERATU	JRE
13.1	Leakage current not excessive and electric strength adequate	5th 15th 15th	¢ P

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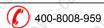




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EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdic
4			
C.CER.	Heating appliances operated at 1,15 times the rated power input (W)	Chr. Chr. Chr.	N/A
	Motor- operated appliances and combined	230X1.06=243.8V	Po
	appliances supplied at 1,06 times the rated voltage	A A A	
Chr.	(V)	Ett. Ett.	C
	disconnected before carrying out the tests	V.E. N.E. V.E	N/A
13.2	The leakage current is measured by means of the	0, 0, 0,	ZP
10.2	circuit described in figure 4 of IEC 60990:1999		28
	For class 0I appliances and class I appliances,	GV . G, GV . G	Р
	except parts of class II construction, C may be	Only Only	Ó
~	replaced by a low impedance ammeter		~
CELY.	Leakage current measurements:	(see appended table)	P
3.3	The appliance is disconnected from the supply	11'5' 11'5' 11'S	Р
	Electric strength tests according to table 4	(see appended table)	Р
CEIR	No breakdown during the tests		CENT P
14	TRANSIENT OVERVOLTAGES		
	Appliances withstand the transient over-voltages to	A A A	δN/A
CEB.	which they may be subjected	ALL ALL ALL AND	CEIN/A
9	Clearances having a value less than specified in	(see appended table)	N/A
	table 16 subjected to an impulse voltage test, the	0, 0, 0,	0
	test voltage specified in table 6	A A A	- Á
Ch	No flashover during the test, unless		N/A
13 07	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited	ovis ovis ovis	N/A
15	MOISTURE RESISTANCE		
15.1	Enclosure provides the degree of moisture	ري.	Р
0	protection according to classification of the appliance	0, 0, 0,	Ó
	Compliance checked as specified in 15.1.1, taking	5 5 5	×Ρ
	into account 15.1.2, followed by the electric strength test of 16.3	Ser Series Series	C.C.
9	No trace of water on insulation which can result in a	1/2 1/2 1/2	Do
	reduction of clearances or creepage distances below	0. 0. 0.	Po
	values specified in clause 29		C. P.
15.1.1	Appliances, other than IPX0, subjected to tests as	IP44	Р
0	specified in IEC 60529	0, 0, 0,	0
	Water valves containing live parts in external hoses for connection of an appliance to the water mains	5 5 5	N/A
	tested as specified for IPX7 appliances	EL EL EL	Carre
15.1.2	Hand-held appliance turned continuously through	1.6, 1.6, 1.6	N/A
15.1.2	the most unfavourable positions during the test	0, 0, 0,	IN/A
T. P.	Built-in appliances installed according to the		N/A
,C'	instructions	ST SOY	O'V III
	Appliances placed or used on the floor or table	ON12 ON12 ON12	N/A
	placed on a horizontal unperforated support	A A A	
	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are	ELE, ELE, ELE,	N/A
	mounted on a wooden board	150 150 15	, 0
0	For IPX3 appliances, the base of wall mounted	0,, 0,, 0,,	N/A
	appliances is placed at the same level as the pivot	A A A	14/7
	axis of the oscillating tube	C.C. C.C. C.C.	C/C

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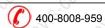




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EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
S'CERT	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	CERT NIS-CERT NIS-CERT	N/A
S.CERI N	for 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	Stří Nis-Stří Nis-Stří	N/A
, gi	Wall-mounted appliances, take into account the distance to the floor stated in the instructions		N/A
S.C. OV	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and		N/A
5.CV 01	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	OVISION OVISION	N/A
CERI	Appliances with type X attachment fitted with a flexible cord as described	SER SERIO SERIO	N/A
13 01	Detachable parts subjected to the relevant treatment with the main part	Ohis Ohis O	N/A
S.CEPIT V	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	CERT JESCEPH JESCEPH	N/A
15.2	Spillage of liquid does not affect the electrical insulation		N/A
S.CET	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	N/A
	Appliances with type X attachment fitted with a flexible cord as described		N/A
S.Ch. OV	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	cti discti discti	N/A
	Detachable parts are removed	the the the	N/A
S. CV	Overfilling test with additional amount of water, over a period of 1 min (I)	15.00 NE.00	N/A
. K	The appliance withstands the electric strength test of 16.3		N/A
S.C. 01	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29	onis on onis or	N/A
15.3	Appliances proof against humid conditions	LER SERI SERI	P
65	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	015,000	is P
CEPÁ	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		CER ^I P
6	Humidity test for 48 h in a humidity cabinet	1.5	15 P 1
6	Reassembly of those parts that may have been removed		P
CCC	The appliance withstands the tests of clause 16		C C P
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		PO
16.1	Leakage current not excessive and electric strength adequate		P

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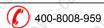




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	EN 60335-2-51+ EN 60335	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
C.CERT	Protective impedance disconnected from live parts before carrying out the tests		N/A
10 011	Tests carried out at room temperature and not connected to the supply	Only Only Only	Poli
16.2	Single-phase appliances: test voltage 1,06 times rated voltage (V):		SER P
0/1	Three- phase appliances: test voltage 1,06 times rated voltage divided by $\sqrt{3}$ (V)	OH OH OH	N/A
	Leakage current measurements:	(see appended table)	P
15	Limit values doubled if:	Mis Mis Mis	N/A
	- all controls have an off position in all poles, or		N/A
S.CH.	- the appliance has no control other than a thermal cut-out, or		N/A
. 0.	-all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
C.CEL	- the appliance has radio interference filters	Str. Str. Str.	N/A
13 01/1	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	Ones Ones One	N/A
16.3	Electric strength tests according to table 7	the the	(P
,5° 01'	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	(see appended table)	P
CER	No breakdown during the tests	Ser Ser Ser	Ø P
17	OVERLOAD PROTECTION OF TRANSFORMERS	AND ASSOCIATED CIRCUITS	
S.CERT	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	N/A
r ciki	Appliance supplied with 1,06 or 0,94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V)		N/A
	Basic insulation is not short-circuited	1.60 1.50 1.6	N/A
CERT	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	SERÍ SERÍ	N/A
12 011	Temperature of the winding not exceeding the value specified in table 8	ONIS ONIS ONIS	N/A
CERN	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1		N/A
18	ENDURANCE		
-CEA	Requirements and tests are specified in part 2 when necessary		N/A
19	ABNORMAL OPERATION		
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated		PO
(5°CE)	Electronic circuits so designed and applied that a fault will not render the appliance unsafe:	(see appended table)	CE P
9,	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and		N/A

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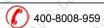




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	EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
is clift	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	JERN WIS CERN WIS CERN WIS	N/A	
	if applicable, to the test of 19.5		N/A	
SCE	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	15 15 15 15 15 15 15 15 15 15 15 15 15 1	N/A	
, 0	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable		PO	
is of the	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	ith orisith orisith	CET P	
S.CERT	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	SERÍ ISSERÍ ISSERÍ	N/A	
, 0	Appliances incorporating voltage selector switches subjected to the test of 19.15	9, 9, 9,	N/A	
is clik.	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	Str. Orisicky Orisicky	N/A	
	until steady conditions are established		N/A	
;is:Ct. 0	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	St. Olisich, Olisich, Olis	N/A	
CERT	Circulation pumps are also subjected to the test of 19.101 (IEC 60335-2-51)	geri geri	CER ^P P	
19.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0,85 times rated power input (W)	of of of of	N/A	
19.3	Test of 19.2 repeated; test voltage (V), power input of 1,24 times rated power input (W)	15 15 15 15 15 15 15 15 15 15 15 15 15 1	N/A	
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited	THE SHE SHE	N/A	
19.5	Test of 19.4 repeated on class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath	LEE CHE CHE	N/A	
5	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	aliza aliza aliza	N/A	
is cite of	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	SER OVIS CERT OVIS CERT OVIS	N/A	
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	THE LEFT LEFT	N/A	
is cital	The working voltage of the PTC heating element is increased by 5 % and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1,5 times working voltage or until the PTC heating element ruptures (V)	THE ONE CHE ONE ONE	N/A	
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	SERI SERI	CER P	

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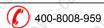




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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Trequirement Frest	Tresuit - Tremair	verdict
CERT	locking moving parts of other appliances		N/A
	Locked rotor, capacitors open-circuited one at a time	Mis Mis Mis	N/A
alki .	Test repeated with capacitors short-circuited one at a time, unless		N/A
	the capacitor is of class S2 or S3 of IEC 60252-1	1,6,0 1,6,0 1,6	N/A
CERT	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed:	chi chi chi	N/A
S CERT	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit.	efti efti efti	N/A
5	Other appliances supplied with rated voltage for a period as specified	die die die	P
CERT	Winding temperatures not exceeding values specified in table 8	(see appended table)	CER ^P
50	The test is carried out with the water flow stopped or reduced to 5L/min, whichever is more unfavourable (IEC 60335-2-51)	ouising ouising ouis	Poi
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	Str. Str. Str.	CET P
19.10	Series motor operated at 1,3 times rated voltage for 1 min (V)	91, 91, 91,	N/A
S.CER.	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		PO
	they comply with the conditions specified in 19.11.1	1,5,0 1,5,0 1,5	N/A
CERT	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless		N/A
	restarting does not result in a hazard	Nig Nig Nig	N/A
S CERT ON	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand- by mode, subjected to the tests of 19.11.4	SERÍ MESCERÍ MESCERÍ	N/A
Science	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out	SERÍ WESTERÍ WESTERÍ	N/A
Α Θ	During and after each test the following is checked:	Y X X	N/A
s.CER	- the temperature of the windings do not exceed the values specified in table 8	CERT SECTION	N/A
, O	- the appliance complies with the conditions specified in 19.13	011. 011. 011.	N/A
S.CER.	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	SERT SESSER	N/A
0	If a conductor of a printed board becomes open-circu considered to have withstood the particular test, prov conditions are met:		N/A

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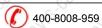




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	EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
c.CERT	- the base material of the printed circuit board withstands the test of annex E	SERT COSERT COSERT	N/A	
CERT	 - any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29 	SERÍ E SERÍ	N/A	
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	circuits or parts of circuits	РО	
SCERI	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	SERT WESCHER WESCHER	CEP P	
SCERI	the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit	CERT NISCERT NISCERT NIS	N/A	
19.11.2	Fault conditions applied one at a time, the appliance specified in clause 11, but supplied at rated voltage, of specified:		CERT P	
3 0	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29	at at at	Poi	
CE.	b) open circuit at the terminals of any component	ist. Copy Copy	OF P	
0	c) short circuit of capacitors, unless	01/10 01/10 01/1	Po	
J. P.	they comply with IEC 60384-14	(A) (A) (A)	N/A	
9,01	d) short circuit of any two terminals of an electronic component, other than integrated circuits This fault condition is not applied between the two	aniside aniside anis	P	
L. P.	circuits of an optocoupler		N/A	
	e) failure of triacs in the diode mode	1.5.0	Р	
0	f) failure of microprocessors and integrated circuits	0, 0, 0,	P	
CERT	g) failure of an electronic power switching device		P	
	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made	EKÍ CHÝ CHÝ	Pol	
19.11.3	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified	Olisia Olisia Olis	N/A	
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or		N/A	
0	a device that can be placed in the stand-by mode,	0, 0, 0,	N/A	
CERI	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode	SERI WESTERN WESTERN	N/A	
o CERT	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that	SERT SERT SERVERS	N/A	
CERÍ O	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.	THE SHEET SHEET	N/A	

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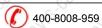




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OViS-CER	Page 23 of 81	Report N	o.: OViS202405008L-R1
OVIS-CER	EN 60335-2-51+ EN 60	<u> </u>	
Clause	Requirement + Test	Result - Remark	Verdict
			, , , , , , , , , , , , , , , , , , ,

		0 0	
CERT	Surge protective devices disconnected, unless	LIFE CEPT CEPT	N/A
15 119	They incorporate spark gaps	11,2, 11,2, 11,2	N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	SERIE COSERIE COSERIE CO	N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified		N/A
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified	one one one	N/A
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		N/A
	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode		N/A
S.CL . 119	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling	11.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	N/A
	Earthed heating elements in class I appliances disconnected		N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	71.6. C.C. 11.6. C.C.	N/A
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-11	CERT CERT CERT	N/A
is ovi	Appliances having a rated current exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-34	at at at	N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60 s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	CERT ON SCHILL ONES CERT ONES	N/A
, A.	The appliance continues to operate normally, or		N/A
S.CV	requires a manual operation to restart	.5,00	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):	40.68A	POVI CERT
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	SER NESCHER WESCHER	CEP P
cri C	Temperature rises not exceeding the values shown in table 9	(see appended table)	P
5,0	Compliance with clause 8 not impaired	, S, C, S, C, S,	Р ,
, 04	If the appliance can still be operated it complies with 20.2		PO.

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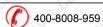




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OVi5-CER	it of of	Page 24 of 81	Report No.: OV	iS202405008L-R1
	EN	N 60335-2-51+ EN 60335	-1	
Clause	Requirement + Test		Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
is clir.	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength tespecified in table 4:		CEP P
6	- basic insulation (V):	1000	P
C.CE	- supplementary insulation (V)	1750	OF P
713 O.	- reinforced insulation (V):	3000	Poll
is CERT	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage	CELET ONES CELET ONES CELET	N/A
	The appliance does not undergo a dangerous malfunction, and		S P
2 0	no failure of protective electronic circuits, if the appliance is still operable	0, 0, 0,	N/A
SCH	Appliances tested with an electronic switch in the off mode:	position, or in the stand-by	N/A
, 0	- do not become operational, or	0,, 0,, 0,	N/A
SCERI	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	JEHR WESCHER WESCHER	N/A
.di	If the appliance contains lids or doors that are control one of the interlocks may be released provided that:	illed by one or more interlocks,	N/A
Se Chi	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited	or die or die or	N/A
S'CETT	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time		N/A
e. CERT	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	thi thi thi	N/A
is' 0'	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	of office of the	N/A
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied	ctri .c.ctri .c.ctri	N/A
19.101	Pump supplied at rated voltage and operated at approximately half at maximum total head for 5min (IEC 60335-2-51)		POW
isi 01	after which the water is drained off and the operation continued for 7h (IEC 60335-2-51)	dision dision di	P
is of a	The system is replenished with water and the pump operated again for 5min at approximately half the maximum system pressure (IEC 60335-2-51)	SEL MECEL MECEL	S ST P

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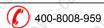


CERT



OViS-CERT	Page 25 of 81	Report No.: OViS2024	05008L-R
	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
is-cleri	If the pump becomes inoperable during test, it is disconnected from supply and filled with water (IEC 60335-2-51)	SERT NISSERT NISSERT	N/A
20	STABILITY AND MECHANICAL HAZARDS		
20.1	Appliances having adequate stability	Ch. Ch. Ch.	P
C.CERT	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn	SERI SERI SERI	N/A
CERT O	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15° Possible heating test in overturned position;	THE SHEET SHEET	N/A N/A
5	temperature rise does not exceed values shown in table 9	Wish Wish Wi	is all
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury		P
5.01	Protective enclosures, guards and similar parts are non-detachable, and	is distributed in the state of	P P
Α Ο	have adequate mechanical strength	y y y	_χ P
CER	Enclosures that can be opened by overriding an	CER CERT	P
5	interlock are considered to be detachable parts Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure		PO
5.0	Not possible to touch dangerous moving parts with the test probe described	ST VIEW NIEW ON	P
21	MECHANICAL STRENGTH		
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	35 1.55 1.55 1.55 1.55 1.55 1.55 1.55 1.	Р
SCERT	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	(see appended table)	P ON
, 0	The appliance shows no damage impairing compliance with this standard, and	0, 0, 0,	PO
S. CETT	compliance with 8.1, 15.1 and clause 29 not impaired		Р
0	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	0, 0, 0,	N/A
Sich	If necessary, repetition of groups of three blows on a new sample		N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	0. 0, 0,	PO
S.CET ON	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	2.03mm	CET P
CERT	The insulation is tested as specified, and does withstand the electric strength test of 16.3		N/A
22	CONSTRUCTION		
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IP44	P

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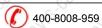


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	OVIS-CERT	1	2	Ž.	2 2	1	1
			EN 60335-2-5	1+ EN 60335	-1		
11	Clause	Requirement + Test			Result - Remark		Verdict
J.							

22.2	Stationary appliance: means to ensure all-pole disco provided:	nnection from the supply being	P
01/	- a supply cord fitted with a plug, or	01/10 01/10 01/10	Po
LP.	- a switch complying with 24.3, or	iki iki iki	N/A
Si Oli	a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	Wising Misign Mis	N/A
CERT	- an appliance inlet	Fig. Car. Car.	N/A
s ovi	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 01 and class I appliances, connected to the phase conductor	olis olis olis	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets	9, 9, 9,	N/A
	Applied torque not exceeding 0,25 Nm	EEF. CEEF. CEEF.	N/A
SERT OV	Pull force of 50 N to each pin after the appliance has being placed in the heating cabinet; when cooled to room temperature the pins are not displaced by more than 1 mm	CEFFT SCEFFT SCEFFT	N/A
3 011	Each pin subjected to a torque of 0,4 Nm; the pins are not rotating, unless	ohis ohis ohis	N/A
CERT	rotating does not impair compliance with this standard	ghi ghi ghi	N/A
2.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets		N/A
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than 0,1 μ F, the appliance being disconnected from the supply at the instant of voltage peak		ST P
o' Wi	Voltage not exceeding 34 V (V)	4.7V	P
CERT	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied	stri stri	N/A
	The discharge test is then repeated three times, voltage not exceeding 34 V (V)	one one one	N/A
22.6	Electrical insulation not affected by condensing water or leaking liquid		CHE P
9	Electrical insulation of class II appliances not affected if a hose ruptures or seal leaks	Onis Onis Onis	Po
	In case of doubt, test as described		P
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices	alisi disi	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	SERT ON'S SERT ON'S SERT ON'S	N/A

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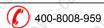




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	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	SERÍ NIS-CERÍ NIS-CERÍ	CEP P
	the substance has adequate insulating properties		N/A
22.10	Not possible to reset voltage-maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:	Str. Oliz Chi. Oliz Chi.	N/A
Sister	- a non-self-resetting thermal cut-out is required by the standard, and		N/A
, 0	- a voltage maintained non-self-resetting thermal cut-out is used to meet it		N/A
.5'CET	Non-self-resetting thermal motor protectors have a trip-free action, unless		N/A
	they are voltage maintained	01, 01, 01,	N/A
S.CERI	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	CHI WELH WELH	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	SERÍ SERÍ	P
12	Obvious locked position of snap-in devices used for fixing such parts	Olis Olis Olis	Poli
Schi	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	SERI JESTERI JESTERI	CERTP
, 0	Tests as described	0, 0, 0,	N/A
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard		N/A
	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard	\$ \$ \text{\$\pi\$} \text{\$\pi\$} \text{\$\pi\$}	N/A
,5°CV	A choking hazard does not apply to appliances for commercial use	and the state of t	N/A
C.R.	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		N/A
5.0	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	NEW WEST	N/A
CERT	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard		N/A
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for bandles which are held for short periods only.	ithi ethi ethi ovi	N/A
22.14	handles which are held for short periods only No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	Olis Olis Olis	Poli
S-CERT	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance	SERT SERVER SESSERT	CEPT P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		N/A
4.1		V. V. V. V.	4.50

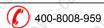
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	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
4	_	4 4 4	
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands and no undue wear of contacts	SER, ORIS CER, ORIS CER, ORIS	N/A
	Cord reel tested with 6000 operations, as specified	EEFT CEFT CEFT	N/A
5 04	Electric strength test of 16.3, voltage of 1000 V applied	orig orig	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	ster steri	N/A
22.18	Current- carrying parts and other metal parts resistant to corrosion	Als Ohis Ohis	P
22.19	Driving belts not relied upon to provide the required level of insulation, unless	gehi gehi gehi	N/A
6 J.	constructed to prevent inappropriate replacement	Wist wist wife	N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless		N/A
3.CV	material used is non-corrosive, non-hygroscopic and non-combustible		N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless impregnated	SERI SERI	CERT
,° 01	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	at at at	N/A
22.22	Appliances not containing asbestos		OF P
22.23	Oils containing polychlorinated biphenyl (PCB) not used	One one one	PO
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	SER WESCHE WESCHE	N/A
egi.	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts		N/A
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts	at at at out	N/A
22.26	For class III constructions the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation	or die or die or	N/A
22.27	Parts connected by protective impedance separated by double or reinforced insulation		Р
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	Stri 115 ctri 115 ctri	N/A
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation		N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed	Wis Wis Wis	P

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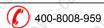




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	EN 60335-2-51+ EN 60335	 5-1	
Clause	Requirement + Test	Result - Remark	Verdict
is citi	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete	SERT OVIS-SERT OVIS-SERT	JIE CEPT P
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	CERT OVIS-CERT OVIS-CERT O	JI'S CEPT P
is ctri	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose	SERÎ OVÎS-SERÎ OVÎS-SERÎ	VIE CHE DIVE
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29	SERÎ OVÎS-CERÎ OVÎS-CERÎ	Vie CHE D
is cital	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	SERT OVISICERT OVISICERT	N/A
SCERI O	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation Ceramic and similar porous material in which heating conductors are embedded is considered to	CERT OFFICERT	N/A N/A
;5; ET	be basic insulation, not reinforced insulation Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature		N/A
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts	SERT ONIS-SERT ONIS-SERT	N/A
-LIPA	unearthed metal parts separated from live parts by basic insulation only		N/A
.5	Electrodes not used for heating liquids	1,50	N/A
is certi	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless	SERÍ OVIS-SERÍ	N/A
, QÍ	the reinforced insulation consists of at least 3 layers		N/A
15.0°	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	Oligical Oligical O	N/A
CERT	the reinforced insulation consists of at least 3 layers	EER CEER CEER	N/A
;5° 0	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	01/5 01/5	N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	SEE SEE SEE	S S P
0,	the shaft is not accessible when the part is removed	0, 0, 0	DO ₂₁

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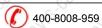




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	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation	SERT ON'S CERT ON'S CERT ON'S	N/A
SCERIO	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation		N/A
is citi	This requirement does not apply to handles, levers and knobs on stationary appliances and cordless appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal.	SERÍ OVIS-CERÍ OVIS-CERÍ OVI	N/A
S CERT	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	SER ISSERE	N/A
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless	SEFE ON ON ON	N/A
a CRIT	they are separated from live parts by double or reinforced insulation		N/A
22.37	Capacitors in class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless		N/A
5,0	the capacitors comply with 22.42	(c) (c) (c)	N/A
22.38	Capacitors not connected between the contacts of a thermal cut- out	0, 0, 0,	PO
22.39	Lamp holders used only for the connection of lamps		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	SERÍ MESCERÍ MESCERÍ	N/A
is chi	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible	SERÍ OVÍS-CERÍ OVÍS-CERÍ	N/A
22.41	No components, other than lamps, containing mercury	11.5.Cb. 11.5.Cb.	P .
22.42	Protective impedance consisting of at least two separate components	Q Q Q	N/A
SCETT OF	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	St. Olizichi, Olizichi, Oli	N/A
CERT	Resistors checked by the test of 14.1 a) in IEC 60065	etri etri	N/A

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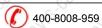




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	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
C.CERT	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	SERT COERT COERT	N/A
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur		N/A
22.44	Appliances not having an enclosure that is shaped or decorated like a toy	ar Migigar Migigar	P I
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure		N/A
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1		N/A
S-CERT	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards	SERÍ JESCHÁ JESCHÁ	N/A
CERT	These requirements are not applicable to software used for functional purpose or compliance with clause 11	ith the the	N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use	Office Office Office	Poli
CERT	No leakage from any part, including any inlet water hose	EFF SEFF SEFF	P
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water	onie, onie, onie	P
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	317 132-31	N/A
, 0,	the appliance switches off automatically or can operate continuously without hazard	9, 9, 9,	N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	Str. Str. Str.	N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode		N/A
,5° 01	There is a visual indication showing that the appliance is adjusted for remote operation	Nision Nision Nis	N/A
CLPAT	These requirements not necessary on appliances that without giving rise to a hazard:	et can operate as follows,	N/A
5.0	- continuously, or	1.6.0	N/A
	- automatically, or	0, 0, 0	N/A
CERT	- remotely	SER CERT CERT	N/A
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold	onis onis	Poli
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts.	SELL ONE CELL	N/A
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	Str. Str. Str.	N/A

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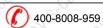




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EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
is cita	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	SERÍ WIS-CERÍ WIS-CERÍ	N/A
22.55	Devices operated to stop the intended function of the appliance, if any, are be distinguished from other manual devices by means of shape, size, surface texture or position	SERT WESCHEN WESCHEN	N/A
	The requirement concerning position does not preclude use of a push on push off switch		N/A
	An indication when the device has been operated is	given by:	N/A
0	- tactile feedback from the actuator or from the appliance, or		N/A
CER	- reduction in heat output; or	Str. Str. Str.	N/A
1/2	- audible and visible feedback	Mis Mis Mis	N/A
22.56	Detachable power supply part provided with the part of class III construction		N/A
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in annex T	Ovision Ovision Ovis	N/A
C.CER	This requirement does not apply to glass, ceramics or similar materials	SER COSER COSER C	N/A
22.101	Circulation pumps shall withstand the water pressure occurring in normal use (IEC 60335-2-51)		POW
15.0°	Compliance is checked by subjecting the pump to a water pressure equal to 1,2 times the maximum system pressure for 1 min (IEC 60335-2-51)	1.2X0.6=0.72MPa	P
,5°C	The pump shall not leak (IEC 60335-2-51)	115 150 115 150 115	P
23	INTERNAL WIRING		
23.1	Wireways smooth and free from sharp edges	Ch. Ch. Ch.	P
15	Wires protected against contact with burrs, cooling fins etc.	Oliga Oliga Olig	Poli
CERT	Wire holes in metal well-rounded or provided with bushings	SEE SEEE	CER P
1/2	Wiring effectively prevented from coming into contact with moving parts	01/13 01/13 01/13	Poli
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	SHE SHE	N/A
120	Beads inside flexible metal conduits contained within an insulating sleeve	Ohis Ohis Ohis	N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	SERI NESCHRI NESCHRI	N/A
- S	Flexible metallic tubes not causing damage to insulation of conductors		N/A
C.CE.	Open-coil springs not used	Con	N/A
, O	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	One One One	N/A
CERT	No damage after 10 000 flexings for conductors flexed during normal use, or	SERY SERVICE SERVICE	N/A

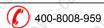
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	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
clift.	100 flexings for conductors flexed during user		N/A
6	maintenance Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	01/2 01/2 01/2 01/2	N/A
CUERT	Not more than 10 % of the strands of any conductor broken, and	SERT SERT	N/A
0)	not more than 30 % for wiring supplying circuits that consume no more than 15 W	One one on	N/A
23.4	Bare internal wiring sufficiently rigid and fixed	ELEN CELEN CELEN	N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	ovies ovies ovie	P
5-CER 01	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	SER OVISICER OVISICER OVIS	CET P
SCERT	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	SERT SSICERY SSICERY	CERTP
CERT OF	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,	THE SHE SHE	PO
5	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation. A single layer of internal wiring insulation does not	OVISION OVISION OVIS	P
S.CV.	provide reinforced insulation		P
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or		PO
Sich	be such that it can only be removed by breaking or cutting	Wis Co Mis Co	P
23.7	The colour combination green/yellow only used for earthing conductors		N/A
23.8	Aluminium wires not used for internal wiring		P
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless		N/A
C.C.C.	the contact pressure is provided by spring terminals		N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)	CHÍ NECHÍ NECHÍ	N/A
24	COMPONENTS		
24.1	Components comply with safety requirements in relevant IEC standards	Str. Str. Str.	Р
03	List of components	(see appended table)	РО
SERI	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	giri giri giri	N/A
12 4	Relays tested as part of the appliance, or	Mis Mis Mis	N/A
	alternatively acc. to IEC 60730-1, and meeting the		N/A

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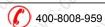




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EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
	<u> </u>		
is CER. W	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	Jehr Wie Chr. Wie Chr. Wie	N/A
c.CERÍ	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	SERIE SERIE	N/A
CERT ON	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections	SERI CERI CERI	N/A
o CERT	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2	0. 0. 0.	N/A
SCERT OF	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met	CHRI I'E CHRI I'E CHRI	N/A
V. 04	If these conditions are not satisfied, the component is tested as part of the appliance.		N/A
S.CET. ON	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	City Original Original	N/A
S.CERT OV	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	SERÍ OVIS-CERÍ OVIS-CERÍ	N/A
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9	SERÍ OVISCERÍ OVISCERÍ	N/A
S.CEPI ON	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance	SERÍ WESCERÍ WESCERÍ	N/A
S.CERT OV	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard	SERÍ OVIS-CERÍ OVIS-CERÍ	N/A
Sign of	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309		N/A
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	of of of of	N/A
Sicher .	If the capacitors have to be tested, they are tested according to annex F	(St. 1.5)	N/A
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16		N/A
	Safety isolating transformers complying with IEC 61558-2-6		N/A

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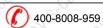




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Verdict
N/A
N/A
CERN ONE CENNA
N/A
N/A
N/A
he number N/A
N/A
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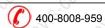




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EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151	SERT OUTS SERT OUTS SERTE	N/A
24.1.8	The relevant standard for thermal links is IEC 60691	eth eth eth	N/A
5 01	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of clause 19	0112 012 01	N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance	SET SECTION SECTION SE	N/A
S. CERT	They are also tested in accordance with clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance	Stri Schi Schi	N/A
24.2	Appliances not fitted with:	0/11 0/11 0/1	РОД
CERT	- switches, automatic controls, power supplies and the like in flexible cords;	CHÍ CHÍ CHÍ	CLE P
is of	devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		Poli
Sich	- thermal cut-outs that can be reset by soldering, unless	11.6. CE 11.6. CE	S COL P
. 0.	the solder has a melding point of at least 230 °C	0, 0, 0,	N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions	THE OUTS THE OUTS THE OUT	N/A
24.4	Plugs and socket- outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket- outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1	SERI JESCHER JESCHER	N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	The Ship Ship	N/A
is cital	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	SERI SERI SERI	N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V	the one one	N/A
15.01	In addition, the motors comply with the requirements of annex I	Wis on Wis on	N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		N/A
5,0	They are supplied with the appliance	115,00 115,00	N/A
CERT	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	ELE SELE SELE	N/A

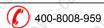
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OVIS-CERT Page 37 of 81 Report No.: OVIS202405008 EN 60335-2-51+ EN 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict	
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure	SER OVIE SERVE OVIE SERVE OVIE	N/A	
CER.	One or more of the following conditions are to be me		N/A	
5	- the capacitors are of class S2 or S3 according to IEC 60252-1	Wis die die	N/A	
CERT	- the capacitors are housed within a metallic or ceramic enclosure	ERI ERI	N/A	
5	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm - adjacent non-metallic parts within 50 mm withstand	Oligi Oligi Olig	N/A	
S. CER.	the needle-flame test of annex E - adjacent non-metallic parts within 50 mm classified	SER, SER, SER,	N/A N/A	
0,1	as at least V-1 according to IEC 60695-11-10	0/10 0/10 0/10	IVA	
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBL	E CORDS		
25.1	Appliance not intended for permanent connection to connection to the supply:	fixed wiring, means for	N/A	
CERT	 supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance 	SERÍ SERÍ	N/A	
5 N	 an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or 		N/A	
	- pins for insertion into socket-outlets		N/A	
25.2	Appliance not provided with more than one means of connection to the supply mains	04, 04, 04,	N/A	
S CERT ON	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown	SER ONES CERT ONES CERT ONES	N/A	
25.3	Appliance intended to be permanently connected to f the following means for connection to the supply mai		P	
CRI O	 a set of terminals allowing the connection of a flexible cord 		N/A	
	- a fitted supply cord	.5 .5	P .	
03	-a set of supply leads accommodated in a suitable compartment	0, 0, 0,	N/A	
SCER ON	 a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support 	ERI ONE CER ONE CERT	N/A	
SCH	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	OFFI JIS CERT JIS CERT JIS	N/A	

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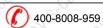




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EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
S.CEPA OVI	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the	JEŘÍ OVIS-JEŘÍ OVIS-JEŘÍ	N/A
- (8)	appliance has been fixed to its support	CHI CHI CHI	(8)
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)		N/A
S.CERI W	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29	SERÎ MESERÎN MESERÎN	N/A
25.5	Method for assembling the supply cord to the appliar	nce:	ĮΡ [°]
CER.	- type X attachment		N/A
(2)	- type Y attachment	Mis Mis Mis	Poli
á	- type Z attachment	A A A	N/A
S. Clis	Type Z attachment is allowed (IEC 60335-2-51)		N/A
, gi	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment	or distant distant	N/A
25.6	Plugs fitted with only one flexible cord		N/A
25.7	Supply cords, other than for class III appliances, beir	ng one of the following types:	N/A
-CRI	- rubber sheathed (at least 60245 IEC 53)	H05RN-F	P
(5,0)	- polychloroprene sheathed (at least 60245 IEC 57)	S 15 15 15	P
· · · · · · · · · · · · · · · · · · ·	- polyvinyl chloride sheathed. Not used if they are likel temperature rise exceeding 75 K during the test of cl		N/A
is chi	- light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg	is wis it wis it	N/A
CERT	- ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	H05VV-F	P
5	- heat resistant polyvinyl chloride sheathed. Not used specially prepared cords	for type X attachment other than	N/A
S.CERI N	- heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	SERÎ WESCERÎ WESCERÎ	N/A
cthi o	- heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances		N/A
50	- halogen-free, low smoke, thermoplastic insulated a	nd sheathed	N/A
CERT OF	- light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable		N/A
Si di	- Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f(for flat cable	of of other	N/A
	Supply cords for class III appliances adequately insulated	.S. (SS. (SSSSSSS.	N/A

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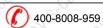




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EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
Δ		<i>A A A</i>	4
S. Cithii	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	SER, SIGHT, SIGHT,	N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²)	3G 0.75mm ²	PO
25.9	Supply cords not in contact with sharp points or edges	Wis of Wis of	P
25.10	Supply cord of class I appliances have a green/yellow core for earthing		P
5.0	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue.	or distor distor	N/A
	Where additional neutral conductors are provided in	the supply cord:	N/A
S. CERN	- other colours may be used for these additional neutral conductors;	.: (130 cm)	N/A
CERT O	 all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 		N/A
	- the supply cord is fitted to the appliance	1,5,00 1,5,00 1,5	Р
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless	SEFÉ SEFÉÉ SEFÉÉ	CERT
12	the contact pressure is provided by spring terminals	Mis Mis Mis	N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure		N/A
25.13	Inlet openings so constructed as to prevent damage to the supply cord	Wision Wision Wis	P
S.CERT OF	If it is not evident that the supply cord can be introduced without risk of damage, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided	SERT ONES CERT ONES CERTA	CERTP
	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is		N/A
	class 0, or	,5' ,5'	N/A
0	a class III appliance not containing live parts	0, 0, 0,	N/A
25.14	Supply cords moved while in operation adequately protected against excessive flexing	SER SERVE SERVE	N/A
0	- applied force (N)	Opis Opis Opis	N/A
É	- number of flexings:		N/A
5,00	The test does not result in:	.5.0	GV.
0	-short-circuit between the conductors, such that the current exceeds a value of twice the rated current	04, 04, 04,	N/A
Siction .	-breakage of more than 10 % of the strands of any conductor	35° (5°) (5°) (6°)	N/A
0	- separation of the conductor from its terminal	0, 0, 0,	N/A
CERT	- loosening of any cord guard		N/A
6	- damage to the cord or the cord guard	11.50 11.50 11.60	N/A
	- broken strands piercing the insulation and becoming accessible		N/A

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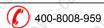
accessible



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~ !	EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord	SERT OVES SERT OVES SERT OV	CELL P	
E P	anchorage		£187	
50	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	dien dien di	P	
CERI	Pull and torque test of supply cord:		P	
3,0	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm):	Wigin Wight	N/A	
	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	SERI SUSERI SUSERI	N/A	
athi	Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm):		N/A	
3,0	Cord not damaged and max. 2 mm displacement of the cord	1.2mm	P P	
25.16	Cord anchorages for type X attachments constructed	and located so that:	N/A	
	- replacement of the cord is easily possible	it i i i i i i i i i i i i i i i i i i	N/A	
. 03	- it is clear how the relief from strain and the prevention of twisting are obtained	011 011 01	N/A	
CER.	- they are suitable for different types of supply cord	the the star	N/A	
3	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	01/2 01/2 01	N/A	
SERI	they are separated from accessible metal parts by supplementary insulation	CHÎ CHÂ	N/A	
3 01	- the cord is not clamped by a metal screw which bears directly on the cord	Onis Onis On	N/A	
CERT	- at least one part of the cord anchorage securely fixed to the appliance, unless	ghi ghi ghi	N/A	
3	it is part of a specially prepared cord	Mis Mis Mis	N/A	
LEN .	- screws which have to be operated when replacing the cord do not fix any other component, unless		N/A	
3.0	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	Wising Mising of	N/A	
	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	南海海	N/A	
5.01	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless	or district district	N/A	
CERT	failure of the insulation of the cord does not make accessible metal parts live	SERIO SERIO SERIO	N/A	
01	- for class II appliances they are of insulating material, or	011, 01, 01,	N/A	
CERI	if of metal, they are insulated from accessible metal parts by supplementary insulation	SER SERI SERI	N/A	
	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	olis olis ol	N/A	

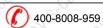
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	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	CERT NISCERT NISCERT	CEP P
25.18	Cord anchorages only accessible with the aid of a tool, or		P
, S. C.	Constructed so that the cord can only be fitted with the aid of a tool	in Mis or Mis or Mis	P
25.19	Type X attachment, glands not used as cord anchorage in portable appliances		N/A
5.0	Tying the cord into a knot or tying the cord with string not used	or die or die or	N/A
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts		P
25.21	Space for supply cord for type X attachment or for co- constructed:	nnection of fixed wiring	N/A
CERT	to permit checking of conductors with respect to correct positioning and connection before fitting any cover	CHA CHAI	N/A
12	- so there is no risk of damage to the conductors or their insulation when fitting the cover	Onis Onis Onis	N/A
S-CERT	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts	CERT IS CERT IS CERT IS	N/A
, 0	2 N test to the conductor for portable appliances; no contact with accessible metal parts	2, 2, 2,	N/A
25.22	Appliance inlets:	CETT CETT	N/A
0	- live parts not accessible during insertion or removal	011, 011, 011	N/A
CERT	Requirement not applicable to appliance inlets complying with IEC 60320-1	SERT SERT SERT	N/A
12	- connector can be inserted without difficulty	Wig Mig Mi	N/A
<u> </u>	- the appliance is not supported by the connector		N/A
SCE	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless		N/A
, 0	the supply cord is unlikely to touch such metal parts	0, 0, 0,	N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	SERY SERY SERY	N/A
(A)	the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	THE THE THE	N/A
5	- the thickness of the insulation may be reduced	.5 .5	N/A
Scient	- for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met	CERT SCERT SECRET	N/A
0	If necessary, electric strength test of 16.3	04, 04, 04,	N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected	CERT SCERT STEELERS	N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet.	CEEL CEEL CEEL	CERT PON

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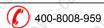




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	EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
S.CEPH N	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	SERÍ NIS CERÍ NIS CERÍ	CEP P	
26	TERMINALS FOR EXTERNAL CONDUCTORS			
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	City Orisich Orisich Oris	CE P	
CERT	Terminals only accessible after removal of a non-detachable cover, except	effi effi	CEPÉ P	
5	for class III appliances that do not contain live parts	J'S' N'S' N'S	N/A	
S-SERT OF	Earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection	CERT WESCHEL WESCHEL	N/A	
26.2	Appliances with type X attachment and appliances for the connection of cables to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless	CHÉ NISCHÉ NISCHÉ	N/A	
	the connections are soldered	0, 0, 0,	N/A	
Sicker	Screws and nuts not used to fix any other component, except	SEE SEE SEE	N/A	
N ON	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors		N/A	
15:01	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	ovision ovision ovi	N/A	
is cert	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint	CERT ON'S CERT ON'S CERT ON'S	N/A	
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor	The one of the one of the one	N/A	
1/2	Terminals fixed so that when the clamping means is	tightened or loosened:	N/A	
, al	- the terminal does not become loose	A A A	N/A	
C.C(C)	- internal wiring is not subjected to stress		N/A	
4	- neither clearances nor creepage distances are reduced below the values in clause 29	on on on	N/A	
is chin	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (Nm):	SER, Oriz CER, Oriz CER, Orig	N/A	
CERT	No deep or sharp indentations of the conductors	EEE CEEE CEEE	N/A	
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and	THE ONE OF STREET	N/A	

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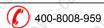




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	EN 60335-2-51+ EN 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
S.CERT	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened	SERT NIS-CERT NIS-CERT	N/A	
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard	SERT MESCERT MESCERT	N/A	
	Stranded conductor test, 8 mm insulation removed		N/A	
Sicher .	No contact between live parts and accessible metal parts and,		N/A	
CERT O	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	THE SHE SHE	N/A	
26.6	Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm²)	SEFFI CLESEFFI CLESEFFI	N/A	
03	If a specially prepared cord is used, terminals need only be suitable for that cord	0110 0110 011	N/A	
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure	SERT NESSER NESSER	N/A	
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other		N/A	
26.9	Terminals of the pillar type constructed and located as specified	Nie Or Wie Or	N/A	
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless		N/A	
5.01	conductors ends fitted with means suitable for screw terminals	or wision wi	N/A	
	Pull test of 5 N to the connection		N/A	
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	SET SEET SECTION SE	N/A	
, cfki	For class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone		N/A	
STOCKER OF	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free		N/A	
27	PROVISION FOR EARTHING			
27.1	Accessible metal parts of class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet	CHAI TE CHAI TE CHAI	CEPT P	
, 0	Earthing terminals and earthing contacts not connected to the neutral terminal	0, 0, 0,	P	
SCEN	Class 0, II and III appliances have no provision for protective earthing	Str. 1.22 (24)	N/A	
. 0	Class II appliances and class III appliances can incorporate an earth for functional purposes	0, 0, 0,	N/A	
	Safety extra-low voltage circuits not earthed, unless	Str. Str. Str.	N/A	

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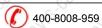


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OVI3-CCK1	1	2	1		1	1
EN 60335-2-51+ EN 60335-1						
Clause	Requirement + Test			Result - Remark		Verdict
	0			0		

,			,
CLE	protective extra-low voltage circuits	EER CEER CEER	N/A
27.2	Clamping means of earthing terminals adequately secured against accidental loosening	Oliza Oliza Oliza	Poji
S'CERT	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2,5 to 6 mm², and	SERT SEERT SEERT	N/A
0,	do not provide earthing continuity between different parts of the appliance, and		PO
Sight.	conductors cannot be loosened without the aid of a tool		P
CERT OF	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	The Children Children	PO.
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part	ouis ouis ouis	N/A
CERT ON	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	THE THE OWN	POW
5.0	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	ovision ovision ovis	N/A
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal	SERI OVIS-CERI OVIS-CERIO OVIS	CEP P
c.CERT	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	ithi echi	CERT P
01/	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm	The one on	N/A
S-CEPI N	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	SERI WESTERN WESTERN WE	CEP P
CERT	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion	SER SER SER	P
is ovi	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	at at at	Poli
27.5	Low resistance of connection between earthing terminal and earthed metal parts	20 1.2 20 1.2 20 1.5	N/A
S.CELET OVE	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance	THE ONE SELECTION OF SELECTION	N/A
S'CERT .:	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	SERT ISSUERT ISSUERT	N/A
0,	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)	0.004	PO

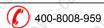
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OViS-CERT	Page 45 of 81 EN 60335-2-51+ EN 6033	Report No.: OViS20240	5008L-R
Clause	Requirement + Test	Result - Remark	Verdict
	1,104,110,110	, , , , ,	
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.	SER WESTERN WESTERN WES	CEP P
S.CERT ON	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit	SERT OUTS SERT OUTS SERT OUTS	CERTIP
CERT	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	SEFÉ SEFÉ	N/A
28	SCREWS AND CONNECTIONS		
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	SERÍ SESTERÍA SESTERÍA	CÉPÍ P
0	Screws not of soft metal liable to creep, such as zinc or aluminium	01, 01, 01,	PO
	Diameter of screws of insulating material min. 3 mm	Eth. City, City,	N/A
	Screws of insulating material not used for any electrical connections or connections providing earthing continuity	at at at	N/A
S.CE. O	Screws used for electrical connections or connections providing earthing continuity screwed into metal	St. Oliging Oliginal Olig	St. b
S.CERT	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	THE SECTION OF SECTION	N/A
	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation	SEE SEEE SEEE	N/A
0	For screws and nuts; torque-test as specified in table 14	(see appended table)	РОД
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless	SEPT OVIS SEPT OVIS SEPT OVIS	CEP P
S.CER.	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material		N/A
	This requirement does not apply to electrical connect which:	ions in circuits of appliances for	N/A
S. Cliff	- 30.2.2 is applicable and that carry a current not exceeding 0,5 A		N/A
0	- 30.2.3 is applicable and that carry a current not exceeding 0,2 A	011 011 011	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	SERY WESTERN WESTERN WES	N/A
S.CERT .	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	THE WESTERN WESTERN WESTERN	N/A
0	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer		N/A

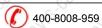
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	EN 60335-2-51+ EN 6033	5-1	1
Clause	Requirement + Test	Result - Remark	Verdict
is CHA	Thread-cutting, thread rolling and space threaded so connections providing earthing continuity provided it connection:		N/A
6	- in normal use,		N/A
C.CE.	- during user maintenance,	ign. Tign. Tign.	N/A
0	- when replacing a supply cord having a type X attachment, or	01/19 04/19 01/19	N/A
CERT	- during installation	eth, eth, eth,	N/A
1,5	At least two screws being used for each connection providing earthing continuity, unless	Ovies Ovies Ovies	N/A
	the screw forms a thread having a length of at least half the diameter of the screw	elki elki elki	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	the one one	Poli
55	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	Olisica Olisica Olis	N/A
	if an alternative earthing circuit is provided		P
15.Ct	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	St OVISICE OVISICE OVIS	N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SO	LID INSULATION	
5	Clearances, creepage distances and solid insulation withstand electrical stress	is die	P
S.CERT	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), annex J applies	CERT SCERT SCERT	N/A
0	The microenvironment is pollution degree 1 under type 1 protection	911. 911. 911.	N/A
	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3	CERT ON'S CERT ON'S CERT ON'S	N/A
C.CERI	These values apply to functional, basic, supplementary and reinforced insulation:	SEE SEE SEE	N/A
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless:	(see appended table)	PO ^N
12	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14	Only Only Only	N/A
	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500 V and above are increased by 0,5 mm and the impulse voltage test is not applicable	CERT OVIS-CERT OVIS-CERT OVIS	N/A
CER	For appliances intended for use at altitudes	SER, SER, SER,	N/A
	exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values	Mis Mis Mis	ON'

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N/A

in Table A.2 of IEC 60664-1

Impulse voltage test is not applicable:



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	EN 60335-2-51+ EN 6033	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
CERT	- when the microenvironment is pollution degree 3, or	SERT SERTE	N/A
12	- for basic insulation of class 0 and class 01 appliances	One One One	N/A
C.CER.	- to appliances intended for use at altitudes exceeding 2 000 m	Str Eith Eith	N/A
0	Appliances are in overvoltage category II	01/10 01/10 01/10	N/A
CERT	A force of 2 N is applied to bare conductors, other than heating elements	EFF EFF	P
,S	A force of 30 N is applied to accessible surfaces	1,15	Pyi
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	SERIE SERIE	CEPT P
0	The values of table 16 or the impulse voltage test of clause 14 are applicable	(see appended table)	N/A
S.CERI	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	SERÎ NESERÎ NESERÎ	N/A
, gi	Lacquered conductors of windings considered to be bare conductors		N/A
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	(see appended table)	CV P
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage:	(see appended table)	CEP P
is chi	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	SERT OUS-SERT OUS-SERT OUS	CERT OUT
29.1.4	Clearances for functional insulation are the largest va	alues determined from:	P
5,00	- table 16 based on the rated impulse voltage:	(see appended table)	P .c
0	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	042 042	N/A
Siction ,	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
, 0	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless	9, 9, 9,	N/A
	the microenvironment is pollution degree 3, or		N/A
12 0	the distances can be affected by wear, distortion, movement of the parts or during assembly	original original original	N/A
S CERT	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	SERI MES SERI MES SERI	N/A
	Lacquered conductors of windings considered to be bare conductors		N/A
5.CV	However, clearances at crossover points are not measured	or die	N/A
	Clearance between surfaces of PTC heating elements may be reduced to 1 mm		N/A
29.1.5	Appliances having higher working voltages than rated insulation are the largest values determined from:	o voltage, clearances for basic	N/A

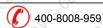
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OViS-CERT		Report No.: OViS20240	2000E 10
	EN 60335-2-51+ EN 60335	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
CERT	- table 16 based on the rated impulse voltage:		N/A
5	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	OMIS OMIS OMIS	N/A
CERT	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	SERIO SERIO	N/A
S CERT	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation	CERT I'E CERT I'E	N/A
S.CERT OF	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160 % of the withstand voltage required for basic insulation	CERT ON'S CERT ON'S	N/A
S-CERT CL	If clearances for basic insulation are selected from clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation	SERT WESTERN WESTERN WE	N/A
S.CERT OF	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage	CERT ON'S CERT ON'S CERT ON'S	N/A
S.C. O	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15		N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	(see appended table)	P O
all R	Pollution degree 2 applies, unless	ieki seki seki	P
5,0	- precautions taken to protect the insulation; pollution degree 1	Nisis Nisis Nis	N/A
CERT	- insulation subjected to conductive pollution; pollution degree 3		N/A
5	A force of 2 N is applied to bare conductors, other than heating elements	Wist Wist Wis	P
a	A force of 30 N is applied to accessible surfaces	A A A	P
S CORN	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system	ar ar ar	N/A
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	C P
S-CERT O	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 17	SERT OF SERT OF	N/A

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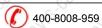


the values in table 17.



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	EN 60335-2-51+ EN 60335	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
is certi	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14	SERÍ OVIS-SERÍ OVIS-SERÍ	CELT P
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see appended table)	P
CERT	Table 2 of IEC 60664-4, as applicable	the the the	N/A
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	(see appended table)	Poi
CER	Table 2 of IEC 60664-4, as applicable	Ser Ser Service	N/A
29.2.4	Creepage distances of functional insulation not less than specified in table 18	(see appended table)	N/A
is cert	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 18	SERI ONIS SERIO ONIS SERIO ONIS	N/A
S.CER OV	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited		N/A
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	SERI NESCERI	N/A
, 0,	Compliance checked:	0, 0, 0,	P
	- by measurement, in accordance with 29.3.1, or	EEFT SEFT SEFT	P
,5	- by an electric strength test in accordance with 29.3.2, or	Oliz Oliz	N/A
S-CERT OF	- 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	SERÍ OVIS-SERÍ OVIS-SERÍ	N/A
S.CERT	- for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	SEE SSIELER SSIELER	N/A
S-CERT OF	- by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or	SERT ON ON ON	N/A
C.CEPÁ	 as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz 	SEFF SEFFF SEFFF	N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm	One One One	Pol
e CERI	Reinforced insulation have a thickness of at least 2 mm	SER SERVE SERVE	CEP P
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	Mis Mis Mis	N/A
	Supplementary insulation consist of at least 2 layers	the the the	N/A

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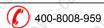




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	EN 60335-2-51+ EN 60335	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
c lekt	Reinforced insulation consist of at least 3 layers	LEAN SLEAN	N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	Onig. Onig. Onig	N/A
Á	the electric strength test of 16.3		N/A
5.00.	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out	one one one	N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19	CERT OFFICERY OFFICERY	N/A
30	RESISTANCE TO HEAT AND FIRE		
30.1	External parts of non-metallic material,		S ^C P
13 01	parts supporting live parts, and	Mis Mis Mis	Poli
CERT	parts of thermoplastic material providing supplementary or reinforced insulation		P
5	sufficiently resistant to heat	Wist Wist Wis	P
~	Ball-pressure test according to IEC 60695-10-2		Р
S.CETT OV	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C)	(see appended table)	CET P
S.CELY ON	Parts supporting live parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 125 °C, whichever is the higher; temperature (°C)	(see appended table)	CET P
Sicility Ori	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C)	(see appended table)	N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire	D. Misig. Misig.	P
6	This requirement does not apply to:		N/A
S.C. OV	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or	or or or or	N/A
15.CE. 04	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	Str. Olis Ctr. Olis Ctr.	N/A
SERI	Compliance checked by the test of 30.2.1, and in addition:		CERP
12 01	- for attended appliances, 30.2.2 applies	Wis Wis Wi	N/A
	- for unattended appliances, 30.2.3 applies		Р
Ciclin	For appliances for remote operation, 30.2.3 applies	Ser. Ser. Ser.	N/A
12 01	For base material of printed circuit boards, 30.2.4 applies	Ohis Ohis Ohi	N/A
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C	SERI CERI CERI	CEPP

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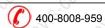




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	EN 60335-2-51+ EN 60335	5-1	
Clause	Requirement + Test	Result - Remark	Verdict
S-CERT W	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or	SERT WIS CERT WIS CERT	N/A
, RÍ	the material is classified at least HB40 according to IEC 60695-11-10		N/A
3.01	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	Olie of Olie of	N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and	SERT WESTERN WESTERN	N/A
. SZ	parts of non-metallic material within a distance of 3 mm of such connections,		N/A
, GV	subjected to the glow-wire test of IEC 60695-2-11		N/A
0,1	The test severity is:	0, 0, 0,	0
CERT	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	SER SERVE	N/A
, O1.	- 650 °C, for other connections	Onis Onis Oni	N/A
CER ^X	Glow-wire applied to an interposed shielding material, if relevant		N/A
o'i o'i	The glow-wire test is not carried out on parts of mate glow-wire flammability index according to IEC 60695		N/A
CER ^X	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
0.0	- 650 °C, for other connections	115' 415' VI	N/A
Α.	The glow-wire test is also not carried out on small pa	orts. These parts are to:	N/A
CERT	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	SERVE SERVE SERVERS	N/A
	- comply with the needle-flame test of annex E, or	01, 01, 01,	N/A
CERT	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10:	stri stri stri	N/A
	Glow-wire test not applicable to conditions as specified:	Ohio Ohio Ohi	N/A
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2		P
o di	The tests are not applicable to conditions as specified:	Miz Miz Mi	N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	SERI SESCERI SESCERI	N/A
07	parts of non-metallic material, other than small parts, within a distance of 3 mm,	0, 0, 0,	N/A
CEL .	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(St. 1.5)	N/A
0,0	Glow-wire applied to an interposed shielding material, if relevant	0, 0, 0,	N/A
CEN OU	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C	SELL ONES CELL ONES CELL	N/A
30.2.3.2	Parts of non-metallic material supporting connections, and	SER SERVICE	CE P

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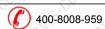




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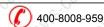
	EN 60335-2-51+ EN 6033	D- I	
Clause	Requirement + Test	Result - Remark	Verdict
C.CEPA	parts of non-metallic material within a distance of 3 mm,	SERT CLISTER CLISTER	CEP P
0	subjected to glow-wire test of IEC 60695-2-11	One one one	N/A
ER!	The test severity is:	LER LER LER	N/A
5.01	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	Wig Mig Mig	N/A
6	- 650 °C, for other connections		N/A
Sich	Glow-wire applied to an interposed shielding material, if relevant		N/A
0	However, the glow-wire test of 750 °C or 650 °C as a parts of material fulfilling both or either of the followin		N/A
Sign.	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	50 00 00 00 00 00 00 00 00 00 00 00 00 0	N/A
	- 775 °C, for connections carrying a current exceeding 0,2 A during normal operation	\$ \$ \$	N/A
S.CK.	- 675 °C, for other connections		N/A
0	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	01/12 01/12 01/13	N/A
S.CER.	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	CER CERT CERT	N/A
0,	- 650 °C, for other connections	01/10 01/10 01/10	N/A
	The glow-wire test is also not carried out on small pa	irts. These parts are to:	N/A
5.00	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	One one one	N/A
CERN	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
12 01	- comply with the needle-flame test of annex E, or	Origo Origo Origo	N/A
E PÁ	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
	The consequential needle-flame test of annex E app encroach within the vertical cylinder placed above the and on top of the non-metallic parts supporting curre parts of non-metallic material within a distance of 3 n parts are those:	e centre of the connection zone nt-carrying connections, and	N/A
(R)	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or	iki iki iki	N/A
5.0	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	Olision Olision Olis	N/A
S-CERT ON	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	SERT ONES SERTIONES	N/A
a la	- small parts for which the needle-flame test of annex E was applied, or		N/A
S.CV	- small parts for which a material classification of V-0 or V-1 was applied	5	N/A
est o	However, the consequential needle-flame test is no parts, including small parts, within the cylinder that are		N/A
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	7.2 1.2 1.2 1.2	N/A

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OVIS-CERT Page 53 of 81 Report No.: OVIS202405008L-R1 EN 60335-2-51+ EN 60335-1				
Clause	EN 60335-2-51+ EN 6033	Result - Remark	Verdict	
Clause	Requirement + Test	Result - Remark	Verdict	
S.CEPA	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A	
and out	- parts shielded by a flame barrier that meets the needle-flame test of annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	SERI SERI SERI	N/A	
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of annex E	01/13 01/13 01	N/A	
CERI	Test not applicable to conditions as specified:	EEF CEFF CEFF	N/A	
31	RESISTANCE TO RUSTING			
	Relevant ferrous parts adequately protected against rusting		P	
.5	Tests specified in part 2 when necessary		o N/A	
32	RADIATION, TOXICITY AND SIMILAR HAZARDS			
is-clift	Appliance does not emit harmful radiation or presen a toxic or similar hazard due to their operation in normal use		CHEP AND	
7	Compliance is checked by the limits or tests	4 4 4	P	
CES.	specified in part 2, if relevant	Ch. Ch. Ch.	C.S.	
	schi dischi dischi dischi dischi		is clift outs	
	S. CEH. ON S. CEH. ON S. CEH. ON S. CEH. ON	SCEEN ONESCEEN ON SCEEN ON		
Nis CER OV				
	soft outsoft outsoft outsoft outsoft	is CEEN ONES CEEN ON	is cer ouis	
	scith discith discith discith discith di	is ceth outs ceth outs ceth of		
	S.CER. ONS.CER. ONS.CER. ONS.CER. ON	SEERI OUS CERT OUS CERT OU		
		scent oriscent oriscent or		



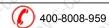


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OVID CCITI	1 1	1 1	1 1	1
		EN 60335-2-51+ EN 60335	5-1	
Clause	Requirement + Test		Result - Remark	Verdict

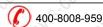
	CENELEC COMMON MODIFICATIONS (EN)	2
0.2	Replace "dangerous" with "hazardous" (twice).	Z P
2.44	In sub Clause 22.44, replace the text by the following:	; —
7 0	An appliance is child-appealing if one of the following criteria is present:	_
, CEPA	appliance decorated using faces, cartoon like characters, or similar images;	N/A
CERN O	— appliance using shapes representing animals, characters, persons or scale models.	N/A
6	An appliance is child-appealing if more than one of the following criteria are present:	j —
CERÍ O	using non-functional light (functional light is e.g. illumination of an object or area, signal indicating status of an appliance);	N/A
, A	— using non-functional sound (e.g. music);	N/A
,GV	— using non-functional movement.	N/A
× 0	If the appliance is child-appealing and:	_
CERT	— has a mass less than 4 kg; and	N/A
03	— is mounted or normally intended for use at a height less than 850 mm, the following conditions shall be met:	N/A
	— No surface (both functional surfaces and non-functional) that are accessible by means of test probe 19 of IEC 61032 located at a height less than 850 mm shall exceed the temperature rises stated below: Temperature rise	N/A
	– of bare metal 38K	9
	- of coated metal 42K	.61
	 of glass and ceramic of plastic having a thickness exceeding 0.4 mm 	SEL C
CERT OF	— Hazardous moving parts shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 20.2.	N/A
CERT	Live parts shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 8.1.1.	N/A
CERT O	— Liquid in the appliance shall not exceed 38 °C in normal use when it is accessible by means of test probe 19 under the conditions specified for test probe 18 in Clause 20.2 or can get out of the appliance when positioned in different positions. Vessels in which two independent and sequential actions are needed to access the liquid are considered to meet the requirement.	N/A

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OVi5-CERT		age 55 of 81 335-2-51+ EN 60335-1	Report No.: OViS2	
Clause	Requirement + Test		Result - Remark	
.65		áá. tá		
.5 Ct.	— The requirement of 22.12 is a accessible parts of the appliance			Str P
3, 0,	The requirement is not applicable where there is a toy shaped like		0, 0,	D PO
c.CEPP	Noise reduction is an integral pa process and should be achieved	rt of the design	C.CER. C.CER.	N/A
3113 011	measures to control noise source ISO 11688-1:2009. The success	es, such as EN	Onis Onis	One One
22.ZE.10	measures adopted are evaluated	d based on the		CERT
31.5° 011	actual noise emission values of of the same type with comparable in	non acoustic		onis onis
CERT	technology data. Compliance is the noise testing specifications (i			c.E.E.
24.1.7	Part 2. Replace the sub clause with the	followina:	ONE ONE	01/2° -01/2°
-CRÍ	If the remote operation of the a	ppliance is via a	LAI LAI	N/A
dis Cr	telecommunication network, the for the telecommunication interfa			119 01
	appliance is IEC 62151.			
	والمراق المراق ا		Ohis Ohis	
Mis OM				
	ist dist dist		ONISIT ONISIT	Wist Wist
	Sich Wisich Wisich Wisich			
24, 04,			01, 01,	



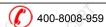


0			Page 56 of 81	Repo	rt No.:OViS20240	5008L-R1
OViS-C	<u> </u>	il celler	CERT CERT	ctR\ctR	K) CERT	CER!
10.1	TABLE: Power inp	out deviation	11,2 11,13	Mig Mig	With With	. Bilis
Inpu	t deviation of/at:	P rated (W)	P measured (W)	ΔΡ	Required Δ P	Remark
1.5	230V 50Hz	180	162.36	-9.8%	+15%	-,·S

10.2	TABLE: Curren	t deviation	CERT CERT	CERT CERT	CEL	CEP C
Current o	deviation of/at:	I rated (A)	I measured (A)	ΔΙ	Required Δ I	Remark
2	230V 50Hz	1.53	1.55	+1.2%	+15%	CER-
11.8	TABLE: Heating	ı test		7. O	01, 01,	P P
CV	T111 0.0	3/3		00000	054.4	9

115.0	Test voltage (V)	:	1.15,0	206.8	254.4	
- 25	Ambient (°C)	:		₁=21.1 ₂=21.4	t ₁ =21.1 t ₂ =22.1	
Thermo	couple locations		mpera	ture rise \(\text{T}\) (K)	Max. temperature rise limit, ΔT (K)	
		206.8V		254.4V		
Electroly	tic capacitor	32.6	115	31.1	T105-25=80	
Termina	l block	34.8		33.3	For 30.1	
Y capac	itor view view view view	36.6	11,2	36.0	50	
X2 capa	citor	34.0	25	33.1	50	
Varistor	1/5°C 1/5°C 1/5°C 1/5°C	42.0	1,15,01	41.6	For Ref.	
Internal	wire	44.6	2.	41.4	50	
Supply	cord straining the straining to the straining to the straining the straining to the straini	12.8	,S,	11.0	50	
NTC		43.9	20	41.9	For Ref.	
CBB ca _l	pacitor	30.4	.S	29.9	50	
IC(U1)		59.8	21,	56.0	For Ref.	
Relay(K		22.8		22.1	For Ref.	
РСВ	one one one one	34.5	27/12	32.8	120	
Water te	empereture	CERN	94.9℃	E CERT	TF95(90-95℃)	
01/12	91/12 Piliz Piliz Piliz	Olis	11,12	01/13	Onis Onis Onis	
	A OVIS-CERT OVIS-CERT OVIS-CERT					

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





CX	C.Y C.Y	C.V C.V	C.Y	C.V	C.Y C.Y	C 2	
11.8	TABLE: Heating test	, resistance n	nethod		5	Nie.	Pyi
	Test voltage (V)				254.4		_
S.C.	Ambient, t1 (°C)			. S. C.	21.0	.55	_
0,1	Ambient, t2 (°C)			0, 0,	21.4	0,	_
Temperati	ure rise of winding	R1 (Ω)	R2 (Ω)	ΔT (K)	Max. ΔT (K)		ulation ass
Motor win	ding	72.8	95.6	79.6	90	Class	155(F)
Suppleme	entary information: —	oth och	C. CERT	CERT	College College	2,05	<i>y</i> -
01/2	One One One	, Ohis	0/1/2	0113 011	9 1/19	ONE	ONE
3.2	TABLE: Leakage cur	rent	A CERT	CERT .	alki alki	_<	P
		1.010	(,,		- No.	- 24	v.

07/2	2/1 01	01/2	01/10	01/1	01/1	01/1	01/1	011	01/2
13.2	TABLE: Le	eakage current	t ^s	eki ek	gi d	er er	E CE	5	βÍΡ
Heating app	liances: 1,15	x rated input ((W):			;5°	N'S'	Nis.	_
Motor-opera	ated and com	nbined applianc	ces: 1,06 x	rated volta	age (V):		254.4		_
Leakage cui	rrent betweer	n				I (mA)	Max	x. allowe	d I (mA)
L/N and acc	essible unea	rthed parts	0,	0,	0,	0.01	V 03	0.35 pe	ak
L/N and acc	essible meta	l enclosure	36	ill is	, C	0.12	, SER	3.5	B
Supplement	ary informati	on: —	0/1/2	01/13	0/1/2	0/1/2	01/13	0/1/2	0/1/2

2, S	upplement	ary information: —							
E PÁ	-URI	activity activity	S SERI	- CERT	al Pi	at Ri	-CPA	e P	
15	3.3	TABLE: Electric strength	W. S. C.	115.01	Vis.C.	JiS.C.	115,01	11,5,0	Pris
T	est voltage	applied between:			Vo	oltage (V)	Brea	kdown (Ye	es/No)
, CETT	ive part and	d earthed parts	·S.CE	SCH	SCOTT	1000	· Sich	No	.5.
L	ive part to a	accessible unearthed parts	02	011	0,	3000	0)	No	011
SE S	upplement	ary information: —	. CEPÍ	CERT	CERT	CERT	CERT	CEP	C

14 TABLE: Transier			t overvolta	iges (, di		N	I/A
Clearance	between:		CI (mm)	Required CI (mm)	Rated i	mpulse ge (V)	Impulse to		Flashover (Yes/No)	
Supplemen	ntary inform	ation: —						.61		0
C.CC	C.Cit	2,000	C.CCC	- C.CE	C.CE	S.Cit.	S.C.C.	- C.C.C.	C.C.C.	

16.2	TABLE: Leakage cu	urrent	01/19	01/12 01	11/2 0/11/2	B
Single pha	ise appliances: 1.06 x r	rated voltage .:		THE 2	254.4	_
Three pha	se appliances 1.06 x ra	ated voltage divided by	√3::	(S)	1.5°	_
Leakage cı	ırrent between		I	(mA)	Max. allowe	d I (mA)
Live part ar	nd accessible unearthe	d parts	SER SER	0.01	0.25	<i>y</i> .
Live part ar	nd accessible metal end	closure	3 9/3	0.17	3.5	Olive
Supplemen	tary information: —	A3 A3	海 海	CR.	(A)	Ŕ
Nis Cr	Nie of Nie of	is a visit of	S.C. WiS.C.	N. 63. C.	15'C' 11'S'C	Nic.

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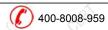


16.3	TABLE: Dielectric strength	Nision Nision	S NE PIS
Test volta	ge applied between:	Voltage (V)	Breakdown (Yes/No)
Live part	and earthed metal enclosure	1250	No
Live part	to accessible plastic enclosure	3000	No Ni
Suppleme	entary information: —		chi chi

17	TABLE:	Overload p	rotection	rotection				N/A		
Thermocouple locations		Max. temperature rise measured, Δ T (K)			Max. temperature rise limit,Δ T (K)			9		
Suppleme	ntary informa	ation:		· · ·	<u> </u>	S	· ·	· .	0	(
CEL	CERT	CEL	CEL	CEL	CEL	CEL	CEL	CEL	CEL	C

Opera	ational charact	eristics	YES/NO		Operation	al conditions	
Are there the applia	electronic circ	uits to control	YES	S.St. 1.5	71.2.CK		1.5.Ch
Are there position	"off" "or "star	nd-by",	YES	CRÍ O	(京)	- rki	CKI O
The unint appliance malfunction	ended operation results in dan	on of the gerous	N/A	5.01.5	01/2:01	0415.01	1:5.01 ON:
Sub- clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final resu
19.2	N/A	N/A	N/A	N/A	A 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	Á N/A Á	N/A	N/A
19.6	N/A	N/A	N/A	S N/A	N/A	N/A	N/A
19.7	240V,Refer to Clause 19.7	No hazard	N/A	N/A	N/A	N/A	EEE 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	N/A	N/A	N/A	N/A	N/A
19.11.2	240V, Refer to Clause 19.11.2	No hazard	N/A	N/A	N/A	N/A	S.C.ERIP
19.11.4.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.101	240V, Refer to Clause 19.101	No hazard	N/A	N/A	N/A	N/A	P
Cupplomor	ntary information	n: — 03	0, 0,	0,1	011.	0, 0	1, 0,

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19.7	TABLE: Abnormal operatio	n, locked rot	tor/moving pa	arts is is P				
	Test voltage (V)		2	_				
·Sich	Ambient, t1 (°C)		:	, CT C2	3.2	_		
011	Ambient, t2 (°C)		2	_				
Temperatu	ure rise of winding	R1 (Ω)	R2 (Ω)	ΔT (K)	T (°C)	Max. T (°C)		
Motor win	ding (rotor locked)	Olis	9113 - 911	- Alis	38.9	190		
Suppleme	entary information: —	195	. Ri		195	(R)		

19.13 TABLE: Abnormal operation	n, temperature rises	0, 0, b,
Thermocouple locations	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Power cord	15.2	150
Electrical box	11.2	For 30.1

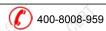
21.1	C.C.C.	TABLE: Impac	t resistance	Sight Sight Sight	P.
I	Impacts	per surface	Surface tested	Impact energy (J)	Comments
CE TO THE PERSON NAMED IN COLUMN TO	CERT	3 EEF	Wire box	1.0	No damage
Ji.	S	35	Enclosure	1.0 Jis	No damage

24.1	TABLE: Critical components inf	ormation	0, 0,	0,000	N/A
Object / part No.	Manufacturer/ trademark ²⁾	Type / model ²⁾	Technical data	Standard	Mark(s) of conformity ¹⁾
-01/2		5 0/1/2	-01123 0112	_ 0/1/2 C	713 ON13
	-th the thi	-EEF		CEPT CEPT	-ciri
-11:5		<u>5</u> 01/15	- Nis Olis		11.5° 01.5°

28.	TAI	11/2	1,10						
	JI MAI	3LE: Thread	led part torque to	est	01/13	01/13	01/2	ONL	В
Th	nreaded part i	dentification	Diameter of	thread	Column nu	ımber	Apr	plied torq	ue
.5			(mm))	(I, II, or	III)		(Nm)	
011.	Scre	:w 0///	2.15	1, 0,	0,1		011	0.4	

0,	Screw	2.15	9, 0	2, 11 0,	0,1	0.4	0,1
all all			chi chi	ac Pri			
29.1	TABLE: Clear	rances				11:5	Pyis
0.	Overvoltage ca	ategory			- N	0,	0.
icti eict	E.C. E.C.	500	Туре	of insulation:		C.CET	
ONE	01/2 01/2	01/2 01/2	01/10	27/2 02/2	01/10	01/10	07/10

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Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Functional (mm)	Supplemen tary (mm)	Reinforced (mm)	Verdict / Remark
330	0,2/0,5/0,8*		CALC.	CEL CEL	-500	N/A
500	0,2/0,5/0,8**	0/1/2	07/13 07/1	-01/2	0/1/2	N/A
800	0,2/0,5/0,8**	ki (ki	- CEA	4 - 4	· CERT	N/A
1 500	0,2/0,5/0,8***	Ni-Si	11:5° 11:5	- N. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	11:5 <u>-</u>	S N/A
<u>2 500</u>	1,5/ <u>2.0</u> ***	B1	S1			P
<u>4 000</u>	3,0/ <u>3.5</u> ***	.5,00	.5.0	R1,500	.5	SOF P
6 000	5,5/6.0***	07	0, 0,	0	0,,	N/A
8 000	8,0/8.5***	F (1)	C.St.	(1) (1)	-CERI	N/A
10 000	11,0/11.5***	Olige Olige	Jis Jis	-01,12	Wig (N/A

Supplementary information: —

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

B1: Between live part and earthed metal: Cl.=Cr.= 2,8 mm

F1: Between L/N terminals: Cl.=Cr.> 2,6 mm

R1: Between live part and electric box enclosure: Cl.=Cr.>8.0 mm

29.1 TAI	BLE: Creep	age dis	tances,	basic, su	ppleme	ntary a	and reinfo	rced i	nsulat	ion	P
Working voltage	je		Cre	eepage dis	stance						
(V)		(mm)									
		Pollution degree									
	1		2			3		Туре	of insu	ulation	Verdict
		М	aterial g	roup	Ma	aterial g	group				
		I	II	IIIa/IIIb	I	Ш	IIIa/IIIb*	B**	S**	R**	
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	(ER)	_	_	N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	_	1,12	_	N/A
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8			5	N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	300	_	_	N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4		2	_	N/A
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8				N/A
S <u>250</u> S	0,56	1,25	1,8	2,5	3,2	3,6	4,0	B1		_	P.5
<u>250</u>	0,56	1,25	1,8	2,5	3,2	3,6	4,0		5	_	N/A
<u>250</u>	1,12	2,5	3,6	5,0	6,4	7,2	8,0	_		R1	CERT P
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3		_	_	N/A

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^{*)}For tracks on printed circuit boards if pollution degree 1 and 2

^{**)}For pollution degree 3

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



OVIS-CENT											
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	_	1:5		N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	_	_	(N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	Str.	_	_	N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		11/2		N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	_	_	<u></u>	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	C.	_	_	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	_	7	_	N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	_	_		N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	,6	_	_	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	_) .	_	N/A
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	_			N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		_	_	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		ć	_	N/A
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	<u> </u>	_		N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		_	_	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	_	-68	_	N/A
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	1 —	_	1.5	N/A S
>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	<u> </u>	CES	_	N/A
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0		_	11	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	.65	_		N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		. C. C.	_	N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	_	_	07	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	281	_	_	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	1 —	1.5	_	N/A S
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	_	_	0,	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	CER.	_	_	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		1.12	_	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	_	_	(N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	C.C.	_	_	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	_	710	_	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	70,	_	_	N/A S
>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	<u> </u>	_	1	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		_	_	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0			_	N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0		_ `		N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0			_	N/A

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>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	_	1.5		N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0		_	,	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	555	_	_	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	_	11/2	_	N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	_	_		N/A

Supplementary information:

- *) Material group IIIb is allowed if the working voltage does not exceed 50 V
- **) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

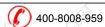
B1: Between live part and earthed metal: Cl.=Cr.= 2,8 mm

R1: Between live part and electric box enclosure: Cl.=Cr.>8.0 mm

Working voltage (V)			•	ge distano Ilution de	•	1)		Verdict / Remark
	1		2			3		
		Ma	aterial gr	oup	Ma	aterial gr	oup	
		I	П	IIIa/IIIb	I	II	IIIa/IIIb*	
yis ≤10 ⁵	0,08	0,4	0,4	0,4	1,0	1,0	1,0	S N/A
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8	N/A
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	NP ON
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	N/A
500%	1,0	5 2,0	2,8	4,0	5,0 %	5,6	6,3	S N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

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

F1: Between L/N terminals: CI.=Cr.> 2,6 mm



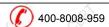
30.1	TABLE: Ball Pr	essure Test of Therr	noplastics	P
Allowed in	npression diameter	(mm):	2.0	CERT CERT -
Object/ Pa	art No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Plasic end	closure		125	1.02
Appliance	inlet	011 _ 011	125	0.84
Motor bob	bin d	E CHE CH	125	0.76
Wire conn	nector	01/19 - 01/19	125	0.78
РСВ	SERI S		125	0.88
Suppleme	entary information:	01/2 01/2	01/19 01/19 01	ing the this this

Object/				Glow wire	test (GW	T); (°C)		
Part No./	Manufacturer/ trademark		6	50	7	50	050	Verdict
Material	liadelliaik	550	te	ti	te	ti	850	
Plastic enclosure	ctri ctri	X	<u> </u>	<u> </u>	<u> </u>	\$ - K	S CERT	P
Motor bobbin	5 _1.5	015°	4.5	7,5	0:5	05	X	is Pile
Relay	.phph		<u> </u>	ķ — ,	Ø 0	0	X	P
VDR .	6.0 —1.6.0	115°C	<u>11</u> 5,6	7,5,0	0.5	05	X	15.0 P 115
Y capacitor	.áá		_	<u> </u>	0	0	X	P
X2 capacitor	500 -,500	<u></u> 5,00	<u></u> .5		0,5	0,50	X	.5.CV P
Wire connector	ctiti — ctiti	 	7 - 9	St	ki 0	0	X	P
Object/ Part No./	Manufacturer/	Glov		mmability i	ndex	_	ition temp. /IT), °C	Verdict
Material	liademark	550	650	750	850	675	775	
Nis- 01	12 -112	0475	4,15	4.12	4.12	415	01/12 C	11,2 - 11,5
The test specir	men passed the g	low wire	test (GW	T) with no	ignition [(te	e – ti) ≤ 2s] (Yes/No):	Yes
f no, then surr	ounding parts pa	ssed the	needle-fla	ame test of	annex E ((Yes/No)	.9.00	N/A
he test specione glow-wire (men passed the t Yes/No)?	est by vir	tue of mo	st of the fl	aming mat	terial being v	vithdrawn with	N/A
	specified layer pla	~	,	<i>2 2 2 3 3 3 3 3 3 3 3 3 3</i>			,	No

Supplementary information:

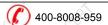
- 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF
- The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances

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0.2/30.2.4 TABL	E: Needle- flame test	(NFT)			P
Dbject/ Part No. //aterial	/ Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb)	Verdict
PCB	See table 24.1	1,5° 0,5°	is No is	115°0 115	Pyis
	r applicable) for Parts			elevant VTM-0	CERN OVIS
OVIS-CERT OVIS-CERT		ONIS CERT ONIS CERT			
ONLE ONLE					
		Nisio Nisio	onis onis	OVIS OVIS	
OVISTO OVISTO	ONISALI ONISALI		OHISTY OHISTY		
	OVISION OVISION				
OVIS-CELY OVIS-CELY					





Report No.:OViS202405008L-R1

EN 62233

1 - EN62233(EMF)

1.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number
HIOKI	Magnetic field probe	100 cm ²	3471
HIOKI	Exposure level tester	FT3470-50	141234935

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 cm².

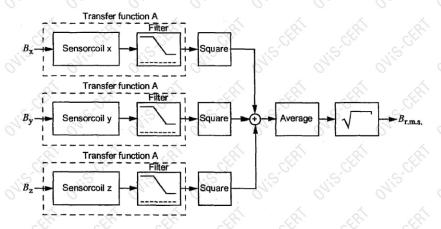
Directly on the enclosure of the EUT (distance = 30 cm) the maximum magnetic field strength was searched. At these points the measurements are done in the distance given by the standard. Observation time is in minimum 3 s on each point.

The schematic diagram of the reference method is as follows:





EN 62233



The weighted result is obtained from the following formula:

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

1.5 Test Conditions

Ambient Temperature : 18 °C / 18 °C (Before Test /After Test); Relative Humidity: 57 %/ 57 % (Before Test /After Test);

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

Measure distance : 30cm

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

Power Supply: <u>254.4V / 50 Hz</u>

Operating conditions: <u>Continuously, lowest temperature setting</u>

1.6 Test Data and Records

	211	01 01	77
Sensor Location		B _{r.m.s} / B _{RL}	
Front	115,0	1.535%	Vision Vis
Rear	6. 6.	1.561%	9. 9.
Left	.5.05	1.577%	·S.CETT
Right	011, 01	1.542%	01, 01,

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_{RL} is the reference level of the magnetic flux density at 50 Hz.

1.7 Verdict

The EUT met the requirement.

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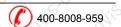


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20			Page	e 67 of 81		Report No	o.:OViS2024	405008L-R1		
Vis-CERT	á á	2	2	2		2	<u> </u>	<u> </u>	.01	
S 3			Е	N 60034-1	1				S.CE.	
CI.	Requirement	- Test			Resi	ult - Remark	k	Verdict	210	01/12

	EN 60034-1		
CI.	Requirement - Test	Result - Remark	Verdict
<u> </u>		نه نه نه	. d
4	DUTY		Р
4.1	Declaration of duty	01, 01,	0) P
al ovising	It is the responsibility of the purchaser to declare the duty. The purchaser may describe the duty by one of the following: numerically, where the load does not vary or where it varies in a known manner; as a time sequence graph of the variable	S1	, OFF
AT OVIS	quantities; by selecting one of the duty types S1 to S10 that is no less onerous than the expected duty.		ON STREET
OVIST	Where the purchaser does not declare a duty, the manufacturer shall assume that duty type S1 (continuous running duty) applies.	official official	OII P
4.2	Duty types		P
4.2.1	Duty type S1 – Continuous running duty	Duty type : S1	oji ^e P
4.2.2	Duty type S2 – Short-time duty	湖 湖 湖	N/A
4.2.3	Duty type S3 – Intermittent periodic duty	1.50	N/A
4.2.4	Duty type S4 – Intermittent periodic duty with starting		N/A
4.2.5	Duty type S5 – Intermittent periodic duty with electric braking	Wis. Onis. on	N/A
4.2.6	Duty type S6 – Continuous-operation periodic duty	stří stří stří	N/A
4.2.7	Duty type S7 – Continuous-operation periodic duty with electric breaking	a a a dis	N/A
4.2.8	Duty type S8 – Continuous-operation periodic duty with related load/speed changes	CER 115 CER 115 CER	N/A
4.2.9	Duty type S9 – Duty with non-periodic load and speed variations		N/A
4.2.10	Duty type S10 – Duty with discrete constant loads	or distribution	N/A
á			. at
5	RATING		Р
5.10	Assignment of rating	0,, 0,,	0) P
	Rating assigned by manufacturer		P

5	RATING		Р
5.1	Assignment of rating	011 011 01	Р
2/	Rating assigned by manufacturer	CHI CHI CHI	P
5.2	Classes of rating		5 P
5.2.1	Rating for continuous running duty	S1	Р
5.2.2	Rating for short-time duty	SERI SERI	N/A
5.2.3	Rating for periodic duty	Nig Nig Ni	^S N/A
5.2.4	Rating for non-periodic duty		N/A
5.2.5	Rating for duty with discrete constant loads	of the section of the	N/A

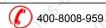
is cert ouis of e chil This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. This test report 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	A A A A A A A A A A A A A A A A A A A	<u> </u>	á
CI	EN 60034-1	Decult Demark	Vordict
CI.	Requirement - Test	Result - Remark	Verdict
5.2.6	Rating for equivalent loading		N/A
5.3	Selection of a class of rating	01/2 01/2	P
£1	General purpose machine has rating for continuous running duty	othi citti	Ń
01/10	If duty not specified by purchaser S1 applies	01/13 01/13	Р
87	Short-time duty, S2 applies		N/A
	Varying loads and no-load, S3 to S8 applies		N/A
£1 031.	Non-periodical variable loads at variable speeds, S9 applies		N/A
1.5	Discrete constant loads, S10 applies	155	N/A
5.4	Allocation of outputs to class of rating	4 4 4	P
N'iS'	For duty types S1 to S8, the specified value(s) of the constant load(s) shall be the rated output(s), see 4.2.1 to 4.2.8.	All models are S1	N P
Nis.	For duty types S9 and S10, the reference value of the load based on duty type S1 shall be taken as the rated output, see 4.2.9 and 4.2.10.	SER NISSERRY ONISSERRY	N/A
5.5	Rated output	CERT CERT CERT	(P)
5.5.1	DC generators	i vis vis	N/A
Á	Output at terminals (W):		N/A
5.5.2	AC generators	ch sich sich	N/A
01/10	Apparent power at terminals (VA):	one one	N/A
87	Power factor:	SERÍ SERÍ SERÍ	N/A
OVIS	Rated power factor for synchronous generators 0.8 lagging (over-exited)	olision olision	N/A
5.5.3	Motors	CERT CERT CERT	P
1,5	Mechanical power at shaft (W)	of Wist Wist	,5°P
5.5.4	Synchronous condensers	4 4 4	N/A
, , , , , , , , , , , , , , , , , , ,	Reactive power at terminals (var):	Carlotte Carlotte	N/A
5.6	Rated voltage	Mis Mis	N/A
5.6.1	DC generators		N/A
OVIS	For small range of voltage, rated output and output factor applies at any voltage within range	or district district	N/A
5.6.2	AC generators		N/A
OVIS	Small range of voltage, rated output and output factor applying at any voltage within range	Or Original Original	N/A
5.7	Coordination of voltages and outputs	á á á	N/A

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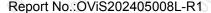
is-cert	EN 60034-1		
CI.	Requirement - Test	Result - Remark	Verdict
Á		.ddd.	, á
i ovis	For machines with rated voltages above 1 kV, preferred rated voltages are selected according to rated output as stated in table	or original original	N/A
5.8	Machines with more than one rating	Chi Chi	N/A
07/10	Complying with standard for each rating	9/12 Mis	N/A
£1	Multi-speed motors rating assigned for each speed	stři zstři zstří	N/A
OTH	For varying rated quantities rating s stated at limits	ON ONE	N/A

1.6"	speed	15'0 15'0	15
£ 0.	For varying rated quantities rating s stated at limits		N/A
		, CV . CV	_s,GV
6	SITE OPERATING CONDITIONS		Р
6.1	General	achi achi achi	P
OVIS	Machine suitable for operating conditions as stated in section 5	O'S OVISION OVISION	OVE P
6.2	Altitude	CHI CHI CHI	P
1.5	Not exceeding 1 000 m	1,5	, 5 P
6.3	Maximum ambient air temperature	4 4 4	P
Sr. C	Not exceeding +40 ℃	See the manual	(P
6.4	Minimum ambient air temperature	Nig Nig	N P
Á	Not less than –15 ℃	See the manual	P
, Wisi	Not less than 0 °C if one or more exceptions apply	ON ONISCON ONISCON	N/A
6.5	Water coolant temperature		N/A
Nis.	For the reference water coolant temperature see Table 4. For other water coolant temperatures see Table 9. The water coolant temperature shall not be less than +5 °C.	No water-cooling.	N/A
6.6	Storage and transport		, S P
51	Minimum specified temperature if different from that in 5.4 ($^{\circ}$ C):	A A A	P
6.7	Purity of hydrogen coolant	115	N/A
0,	Operation at hydrogen content of ≥ 95 %	No hydrogen cooling.	N/A
AT OVISA	For calculating efficiency in accordance with IEC 60034-2 (all parts), the standard composition of the gaseous mixture shall be 98 % hydrogen and 2 % air by volume, at the specified values of pressure and temperature of the re-cooled gas, unless otherwise agreed. Windage losses shall be calculated at the corresponding density.	SERT ON'S SERT ON'S SERT	N/A
<u> </u>		र्क क क	-6
7	ELECTRICAL OPERATING CONDITIONS		P

	<u> </u>	<u></u>		<u> </u>	2	<u> </u>	6	. O.	0
7	ELECTRIC	CAL OPER	ATING CO	ONDITIONS	3				Р
01/13	0/1/2	01/10	01/13	01/13	0/1/2	01/10	01/13	01/10	0)
	the Company subject								

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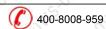






is-cert			<u> </u>
	EN 60034-1	.	
CI.	Requirement - Test	Result - Remark	Verdict
7.1	Electrical supply	Child Child	P
1 015	Rated voltage of three-phase machines derived from IEC 60038	Pass muster comply with the requirements	P
7.2	Form and symmetry of voltages and currents	ich zich zich	o P
7.2.1	AC motors	0410 0410 04	Р
7.2.1.1	AC motors supplied from power supply (AC generator) of fixed frequency suitable for operation on supply voltage having harmonic voltage factor not exceeding:	CERT OVIS-CERT OVIS-CERT	S P
6	0.02 for single and three phase motors	Pass muster	P
Olis	0.03 for design N motors	11/12 11/12 11/12	N/A
7.2.1.2	AC motors supplied from static converters	á á á	P
7.2.2	AC generators	Colin Colin Colin	N/A
0/112	Complying with requirements	Single phase motor	N/A
7.2.3	Synchronous machines	cer cer cer	N/A
115	Maximum I2/IN value for continuous operation:	1,5,0	^S N/A
<u> </u>	Maximum (I2/IN)2 x t in seconds at single fault condition	the the the	N/A
7.2.4	DC motors supplied from static power converters	Nis Nis Ni	^S N/A
	Complying with requirements		N/A
7.3	Voltage and frequency variations during operation	ich, "ich, "ich,	P
1	Figure 11 used for generators and synchronous condensers		N/A
	Figure 12 used for motors	CEL CEL CEL	N/A
olio,	Machine capable of performing its primary function within Zone A	Tested and passed	P
i Visit	Machine capable of performing its primary function within Zone B with deviations	Tested and passed	P
7.4	Three-phase AC machines operating on unearthed	d systems	N/A
, i	Machine able to operate at earthed neutral	Str. Str. Str.	N/A
olis	Machine able to operate at unearthed systems with one line at earth potential for short duration		N/A
7.5	Voltage (peak and gradient) withstand levels		P
01/13	Limiting value for peak voltage (V):	9/12 01/13 04	N/A
4	Limiting value for voltage gradient:	海 海 海	N/A
OVIS	For cage induction motors within the scope of IEC 60034-12	ONISION ONISION	N/A
Ž.	For high-voltage a.c. motor		N/A

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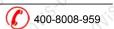


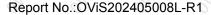


VIS-CERT	Page 71 of 81	Report No.:OViS20240	5008L-R1	
	EN 60034-1			
CI.	Requirement - Test	Result - Remark	Verdict	o Vis
, d				
Nie is	For creepage and clearance distances of bare live copper, see IEC 60664-1.	Creepage distances: 6.6mm	S P	
<u> </u>				
8	THERMAL PERFORMANCE AND TESTS		P	
8.1	Thermal class	, one one	P	

á,			, al
Wis.C	For creepage and clearance distances of bare live copper, see IEC 60664-1.	Creepage distances: 6.6mm	S P
4		A A A	_
8	THERMAL PERFORMANCE AND TESTS		Р
8.1	Thermal class	Ohis Ohis Oh	P
gir and	Thermal classification of windings according to IEC 60085:	Class F	e of P
8.2	Reference coolant	01/12 01/12 01/	Р
er c	Primary coolant:	Air	P
11.5	Method of cooling:	1,5,0	5 P
4	Secondary coolant:	Air	Р
P of	Table number:	CER CER	(P
8.3	Conditions for thermal tests	Wis Wis W	Р
8.3.1	Electrical supply		N/A
	Complying with requirements		N/A
8.3.2	Temperature of machine before test	04, 04, 04,	Р
AT OVIS-CO	Temperature of winding measured before the test shall not different from the coolant temperature by more than 2K	Not differ from the coolant by more than 2 K	o CEP
ri Visici	For short-time rating (S2) temperature of winding measured before the test within 5 K of coolant temperature	SERÍ WESCERÍ WESCERÍ	N/A
8.3.3	Temperature of coolant	0. 0. 0.	P
Nis C	A machine may be tested at any convenient value of coolant temperature.	Be tested at any convenient value of coolant temperature	S CEP
8.3.4	Measurement of coolant temperature during test		P
0115.0	Mean value of readings during last quarter taken as value; variations of temperature of coolant minimized	of office of	P
8.3.4.1	Open machines or closed machines without heat e surrounding ambient air or gas)	xchangers (cooled by	S OP
in the second	Several detectors placed around the machine at halfway at distance of 1 m to 2 m; detectors protected from radiant heat and draught	CERT CERT CO	P. C.
8.3.4.2	Machines cooled by air or gas from a remote source and machines with separately mounted heat exchange and machines with separately mounted heat exchange.		N/A
1:5.C	Temperature of the primary coolant measured where it enters the machine	56th 1155 CERT 1155 CERT 11	N/A
8.3.4.3	Closed machines with machine-mounted or interna	Il-heat exchangers	N/A

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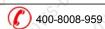






is-cert			<u> </u>
	EN 60034-1		
CI.	Requirement - Test	Result - Remark	Verdict
OVISIO	Temperature of primary coolant measured where it enters the machine; for machines having water-cooled or air-cooled heat exchangers,	ovision ovision of	N/A
	temperature of secondary coolant measured where it enters the heat exchanger	SER, SEER, SER,	CER.
8.4	Temperature rise of a part of a machine	01/13 01/13 01	Р
ź ć	Temperature measured at the end of the test	A A A	P
8.5	Methods of measurement of temperature	1,5,0	,5 P
i or	Recognized method used	Resistance method for winding temperature rise, ETD method for other parts of motor	P P
8.6	Determination of winding temperature		P
8.6.1	Choice of method	ich Tich Tich	ĊΡ
01/13	Rated output (W or VA)	0/10 0/10 01	Р
Š.	Method for measuring winding temperature:	Resistance method	P
OViSiO	Thermometer method only used in following cases:	ovision ovision of	N/A
<i>i</i>	a) When not practicable to determine temperature rise by resistance method	CHRI CCHRI	N/A
01/13	b) Single layer windings, rotating or stationary.	die die d	N/A
<u> </u>	c) During routine tests on machines manufactured in large numbers	SERI SERI	N/A
8.6.2	Determination by resistance method	olis olis	P
8.6.2.1	Measurement		Р
69.	One of following methods used:	.55.	, 5 P
0,1	Direct measurement	Applied.	Р
je e	Measurement by DC current/voltage in DC	Not applied.	N/A
Nis'	measurement by DC. current/voltage in DC	Not applied.	N/A
<u> </u>	Superstition method	Not applied.	N/A
8.6.2.2	Calculation	CELL CELL CELL	Р
ONIS	Temperature (θ_1) of winding (cold) at moment of initial resistance measurement (°C)	See appended table	P
	Temperature (θ_1) of coolant at end of test ($^{\circ}$ C):	See appended table	C P
ONIS	Resistance (R ₁) of winding (cold) at temperature $\theta_1(\Omega)$:	See appended table	P
11.5.C	Resistance (R2) of winding (hot) at end of test / at temperature θ_2 (Ω):	See appended table	S OF
7	Reciprocal of temperature coefficient (k):	235	Р
e e	Temperature rise (θ_2 - θ_a) (K)	See appended table	(P

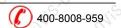
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is-cert			
	EN 60034-1		
CI.	Requirement - Test	Result - Remark	Verdict
8.6.2.3	Correction for stopping time		S P
8.6.2.3.1	General	01/2 01/2	P
8.6.2.3.2	Short stopping time	(A) (A) (A)	P
0.0.2.3.2	Initial reading obtained within time interval specified in table 4	Initial measurement made within 30 s	P
8.6.2.3.3	Extended stopping time	alki alki alki	N/A
OVIE O	Initial reading obtained within twice the time interval specified in table 4	01/5 01/5 0	N/A
E.C	Value at time of shutdown determined through extrapolation	SEE SEE SEE	N/A
8.6.2.3.4	Windings with one coil-side per slot	0110 0110	N/A
2.0	Direct measurement only used if machine comes to stop within time interval specified in table 4	SERI SERI	N/A
8.6.3	Determination by ETD method	01/2 01/2 0	N/A
8.6.3.1	General	CERT CERT CERT	N/A
8.6.3.2	Two or more coil-sides per slot	Wisit Wisit	N/A
i c.cl	Detectors located between insulated coil-sides within slot in positions which highest temperature are likely to occur	OFFI CECEPT CECEPT	N/A
8.6.3.3	One coil-side per slot	011 011 0	N/A
El Wis-Ch	Detectors located between wedge and outside of winding insulation in positions which highest temperature are likely to occur	SERT ONIS CERT ONIS CERT	N/A
8.6.3.4	End windings		N/A
E CO	Detectors located between two adjacent coilsides within end windings in positions where highest temperature are likely to occur; sensing point in close contact with surface of coil-side and adequately protected against influence of coolant	SERI SICERI OVISICELIO	N/A
8.6.4	Determination by thermometer method	0/11 0/11 0	N/A
£	Thermometer placed at hottest accessible spot	Not used for winding temperature determination.	N/A
8.7	Duration of thermal tests	01/12 01/13 0	P
8.7.1	Rating for continuous running duty	eth eth eth	N/A
OVISIO	Test continued until thermal equilibrium has been reached	Wisin disiple	N/A
8.7.2	Rating for short-time duty	activity activity	P
7.2.0	Test duration as specified in rating	1,5,0	, S P
8.7.3	Rating for periodic duty	V V V	N/A
· S	Rated for equivalent loading applied until thermal equilibrium has been reached	SER SIGHT SIGHT	N/A

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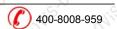




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Vis-CERT			á á	<u> </u>	á	.01	
3		EN 60034-1				C.CET.	
CI.	Requirement - Test		Result - Rema	rk	Verdict	7,13	0/1
á	is is is		, si , si	1	.61	.61	
5	Test on actual duty load	cycle and continued unt	il Str	CE	Con	CEL	

EN 60034-1							
С	l.	Requirement - Test	Result - Remark	Verdic			
á				á			
ì	OVISIO	Test on actual duty load cycle and continued until practically identical temperature cycles are obtained	onie onie onie oni	N/A			
8.	7.4	Rating for non-periodic duty and for duty with discr	rete constant loads	N/A			
_	Ohis	Rated for equivalent loading applied until thermal equilibrium has been reached	01/12 01/12 01	N/A			
8.	85	Determination of the thermal equivalent time const	tant for machines of duty type	N/A			
3	0,	Thermal equivalent time constant determined from plotted cooling curve		N/A			
3.	9 .5	Measurement of bearing temperature	15 15	S P			
	0,	Thermometer method or ETD method used	0, 0, 0	Р			
		Measuring point for as near as possible to one of the two locations specified in table 5	SER SESSERI SESSERI	P			
	011	Thermal resistance between temperature detector and object minimized		P			
3.	10 5	Limits of temperature and temperature rise		s P			
8.	10.1	Indirect cooled windings	0, 0, 0,	Р			
		Temperature rises not exceeding limits of table 7 or 8	Not exceed 110°C	P			
	0,15.0	For other operating site conditions, ratings other than continuous running duty, rated voltages greater than 12 000 V, limits adjusted according to table 9 and 10	Ordinary operating conditions.	N/A			
	, , , ,	For test site conditions differing from operating site conditions, limits adjusted according to table 11	Not differing extensively.	N/A			
3.	10.2	Direct cooled windings	Wis Wis W	N/A			
Ś		Temperatures not exceeding limits of table 12		N/A			
	Nis.C	For other operating site conditions limits adjusted according to table 13	Chi Night Night	N/A			
×.		For test site conditions differing from operating site conditions, limits adjusted according to table 14	SERI SCERI	N/A			
3.	10.3	Adjustment to take account of hydrogen purity on t	test of of	N/A			
Š		Hydrogen content between 95 – 100 %	ceri ceri	N/A			
3.	10.4	Permanently short-circuited windings, magnetic cocomponents (other than bearings) whether or not i		Р			
\$ i		Temperature rise / Temperature not detrimental to insulation	SERT SERT	P			
8.	10.5	Commutators and sliprings, open or enclosed and	their brushes and brushgear	N/A			
Ś		Temperature rise / Temperature not detrimental to insulation	stri stri	N/A			

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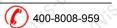




Vis-CERT	OVIS		Page 75 of 8	1 Report No.:OViS202	2405008L-R1	
CERT	ov.	/iS-CERT	EN COOR			
.5	.5		EN 60034	1	.50	
7,	07/	CI.	Requirement - Test	Result - Remark	Verdict	011
.01		ά.			à, à,	
1:5:Ct.	OVISIC	ONIS	Temperature rise / Temperature not exceed that at which combination of brush grade are commutator or slipring material can handle	nd wis wis	N/A	
L.R.	4	Ŕ .	current over full operating range			
· 5	1.5		23, 23, 23,	,5,0,0,0,0	.50	
7	01.	9	OTHER PERFORMANCE AND TESTS		P	
				A A A		

a	OTHER PERFORMANCE AND TESTS	, ,,,,	ГР
0.4	Routine tests		P
9.1			CV
9.2	Withstand voltage test	0/13 0/13 0	is b
ží.	Test Voltage applied between windings under test and frame of machine	eth eth eth	CIP!
Ohis	Withstand voltage test carried out immediately after the thermal test	Ohio Ohio O	Р
il Olis	Polyphase machines with rated voltages above 1 kV having both ends of each phase individually accessible, test carried out for each phase	Rated voltage 254.4V AC	N/A
Á	Test voltage applied for 1 min		P
.5	Test voltage (V):	2U+1000V=1480V	P
9.3	Occasional excess current	011, 011, 0	Р
9.3.1	General	ethi ethi ethi	P
9.3.2	Generators	Nisi Nisi	N/A
£1S	AC generators with output not exceeding 1 200 MVA capable of withstanding current of 1.5 times rated current for 30 s	Stri is stri	N/A
E 00	AC generators with output exceeding 1 200 MVA capable of withstanding current of 1.5 times rated current for at least 15 s	CHE CHE CHE	N/A
9.3.3	Motors (except commutator motors and permanen	t magnet motors)	P
i die	Polyphase motors having rated outputs not exceeding 315 kW and rated voltages not exceeding 1 kV capable of withstanding current equal to 1.5 times rated current for not less than 2 min	Pass muster	5 P
9.3.4	Commutator machines	Carlo Carlo	N/A
0/1/2	Capable of withstanding 1.5 times rated current for 60 s for specified conditions	0113 0113 0	N/A
9.4	Momentary excess torque for motors	CERT CERT CERT	, CP
9.4.1	Polyphase induction motors and DC motors	, Ohis Ohis 9	N/A
RT OVIS	Capable of withstanding for 15 s excess torque of 60 % of rated torque; motor for duty type S9 capable of withstanding momentarily excess torque determined according to duty specified	CERT OVIS-CERT OVIS-CERT	N/A
ķi .	For d.c. motors, the torque shall be expressed in terms of overload current.	str stri	N/A

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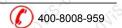


CERT



/is-cert			<u> </u>
21	EN 60034-1), J.
CI.	Requirement - Test	Result - Remark	Verdict
all olis	Motors for duty type S9 shall be capable of withstanding momentarily an excess torque determined according to the duty specified.	SERI OVIS-CERI OVIS-CERI	N/A
P) 1:5	Motors intended for specific applications that require a high torque (for example for hoisting) shall be the subject of agreement.	SERI NESCHA NESCHA	S (P
क्षे	For cage-type induction motors specially designed to ensure a starting current of less than 4,5 times the rated current, the excess torque can be below the value of 60 % given in paragraph 1, but not less than 50 %.	EERÍ OVIS-CERÍ OVI	N/A
al ovis	In the case of special types of induction motors with special inherent starting properties, for example motors intended for use at variable frequency or induction motors supplied from static	CERT ON'S CERT ON'S CERT ON	N/A
ži.	converters, the value of the excess torque shall be the subject of agreement.	SEPT SEPT SEPT	CERT
9.4.2	Polyphase synchronous motors	, Mis Mis M	N/A
et ovisa	Unless otherwise agreed, a polyphase synchronouduty, shall be capable of withstanding an excess to 15 s without falling out of synchronism, the excitativalue corresponding to rated load. When automatiof torque shall be the same values with the excitatinormal conditions:	orque as specified below for ion being maintained at the ic excitation is used, the limits	N/A
Wis	– synchronous (wound rotor) induction motors:35 % excess torque;	04:5° 04:5° 04	N/A
gi.	– synchronous (cylindrical rotor) motors:35 % excess torque;		N/A
Wisi	– synchronous (salient pole) motors:50 % excess torque.	Wist Wist W	N/A
9.4.3	Other moters	.aaa.	Р
, ovis	The momentary excess torque for single-phase, commutator and other motors shall be the subject of agreement.	St. Misch Misch	S P
9.5	Pull-up torque	湖 湖 湖	P
gi ovisi	Unless otherwise specified (for example machines according to IEC 60034-12), the pull-up torque of cage induction motors under full voltage shall be not less than 0,3 times the rated torque.:		S.CEL
9.6	Safe operating speed of cage induction motor	04, 04, 04	Р
RT OVIS	All three-phase single cage induction motors of frame number up to and including 315, shall be capable of safe continuous operation at speed up to the appropriate speed given in table 17, unless otherwise stated on rating plate.		P (
9.7	Overspeed	(C)	5 P
4.1	Withstanding speed specified in table 18	1,2 times rated speed for	P
8)	Short-circuit current for synchronous machines	2min	N/A

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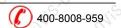




'iS-CERT			
	EN 60034-1		
CI.	Requirement - Test	Result - Remark	Verdict
2	Peak value of short-circuit current of synchronous		
OVISI	machines not exceeding 15 times peak value or 21 times the r.m.s. value of rated current	OHISTO OHISTO	N/A
5,	Rated current (peak / r.m.s.) (A)	TELL CELL CEL	N/A
Wis	Measured / calculated short-circuit current (A):	Wis Wis	N/A
9.9	Short-circuit withstand test for synchronous machin	nes	N/A
.5.	Requested by purchaser		N/A
St. C.	Machine running on no-load with excitation corresponding to rated voltage, short circuit maintained for 3 s	SEFÉ SEFÉ SEÉ	N/A
01/2	No harmful deformation, dielectric strength test not resulting in breakdown	olis olis	N/A
9.10	Commutation test for commutator machines		N/A
AT OVIE	Capable of operating from no-load to operation with excess current or excess torque specified in 8.2 and 8.3 without permanent damage to surface of commutator and brushes, no injurious sparking, brushes remaining in same set position	SERÍ OVIS SERÍ	N/A
9.11	Total Harmonic Distortion (THD) for synchronous r	machines	N/A
9.11.1	General	CELL CIETY	N/A
9.11.2	Limits	0112 0112	N/A
A C	Not exceeding limit		N/A
9.11.3	Tests	J'E' J'E'	N/A
4	THD limit (%):	Y Y Y	N/A
E c	THD measured (%):		N/A

9.11.2	Linius	0 0	11//
8	Not exceeding limit	eff eff	N/A
9.11.3	Tests	il wisio wisio	N/A
4	THD limit (%):	7 7 7	N/A
Se	THD measured (%):	cer. Cer. Cer.	N/A
Mis	Miz Miz Miz Miz	Mis Mis Mi	3
10	RATING PLATES		Р
10.1	General		P
et out	Machine provided with rating plate, durable and securely mounted		P
3	Rating plate mounted on frame, easily legible		P
011	Second rating label requested by purchaser	01, 01, 01	N/A
10.2	Marking	eth eth eth	P
Nisi Nisi	Machines with rated output not exceeding 750 W (VA) and special-purpose built-in machines with rated output not exceeding 3 kW (kVA) marked with items 1, 2, 11, 12, (26) as minimum	See copy of marking plate	P
E CALL	Other machines marked with the following as far as applicable:		P
2,0	a) Manufacturer's name or mark:	See copy of marking plate	P

ris CERT OVIS CO e cliff 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.



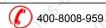


	EN 60034-1		
CI.	Requirement - Test	Result - Remark	Verdict
Á			
OVIS	b) Manufacturer's serial number, or identification mark	See copy of marking plate	b P
	c) Year of manufacture (or as code as part of item 2)):	See copy of marking plate	P
0/1/2	d) Manufacturer's machine code	See copy of marking plate	Р
ź.	e) For AC machines, number of phases:	See copy of marking plate	P
RÍ Wis	f) Number(s) of rating and performance standard(s) which are applicable (IEC 60034-X and/or equivalent national standard(s)):	See copy of marking plate	P
01/5	g) Degree of protection provided by enclosures (IP code) in accordance with IEC 60034-5:	oniginal oniginal	P
ri e	h a) Thermal classification or permissible temperature rise:	EN CHA	P
EL ONLO	h b) If necessary, method of measurement, followed in case of machine with water-cooled heat exchanger by "P" or "S":	Air-cooled	N/A
šį one	i) Class(es) of rating of machine if designed for other than rating for continuous running duty type S1:	S1.	N/A
0/1/2	j) Rated output(s) (W or VA)	Onis Onis On	P
ji .	k) Rated voltage(s) or range of rated voltage (V) . :	220-240V	P
0/1/2	I a) For AC machines rated frequency or range of rated frequencies (Hz):	50/60Hz	P
N.E.	m b) For universal motors, rated frequency (Hz) followed by appropriate symbol:	CELL MIS-CELL MIS-CELL MI	N/A
Ś	o) Rated current(s) (A):	6 6 6	N/A
OV'S	p) Rated speed(s) or range of rated speeds (min-1 or 1/min)	City One City One	N/A
ží.	q) Permissible overspeed, if other than specified in 9.7 (min-1 or 1/min):	SERÍ SERÍ	N/A
A Wis	r) For DC machines with separate excitation or with shunt excitation and for synchronous machines, rated field voltage (V) and rated field current (A)	CEFFI OUTS CEFFI OUTS CEFFI OUT	N/A
4	s) For AC machines, rated power factor(s):	A A A	N/A
	t) For wound-motor induction machines rated	CEPT CEPT CEPT	

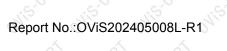
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open-circuit voltage (V) between slip-rings and

rated slip-ring current (A).....:



N/A



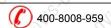


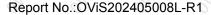
CI.	u) For DC motors with armatures intended to be supplied by static power converters, identification	Result - Remark	Verdict
er ovisco	supplied by static power converters, identification		
	code of static power converter in accordance with IEC 60971 (alternatively for motors not exceeding 5 kW, rated form factor and rated alternating	CERT NISCERT NISCERT	N/A
Pil On Children	voltage at input terminals of static power converter, when this exceeds rated direct voltage of motor armature circuit)	CEFFI OV OV OV	SCERI
AT WIS C	v) Maximum permissible ambient temperature, if other than 40 °C; maximum permissible water temperature, if other than 25°C (°C)	SERÍ WESCERÍ WESCERÍ	N/A
ži c	w) Minimum permissible ambient temperature if other than specified in 6.4 (°C):		N/A
01.5	x) Altitude for which machine is designed (if exceeding 1 000 m above sea level):	1000m	N/A
£ 1:5.0	y) For hydrogen-cooled machines, hydrogen pressure at rated output (Pa or bar)	Air-cooled.	N/A
i o	z) When specified, approximate total mass of machine, if exceeding 30 kg (kg):	see the nameplate	P
ovis"	aa) For machines suitable for operation in only one direction of rotation, direction of rotation, indicated by arrow; arrow easily visible	CERT CERT CERT	P
Nis'	bb) The connecting instructions in accordance with IEC 60034-8 by means of a diagram or text located near the terminals.	Paste in the terminal box	P
.5	Two different rated values shall be indicated by	CV (5° (5°	N/A

11	MISCELLANEOUS REQUIREMENTS				Р
11.1	Protective earthing of machines		0,	0, 0	P
E OVÍ	Machines shall be provided with an earthing terminal or another device to permit the connection of a protective conductor or an earthing conductor	CERT	OVIS-CER	OVIS-CEEPI OF	ie P
81	Appropriate symbol or legend used	CERT	CER	CERT	(P)
OVI	However, machines shall neither be earthed nor be provide with an earthing terminal when:		OVIS	ovis o	N/A
S.	1) they are fitted with supplementary insulation, or	CERT	CER	CERT	N/A

year of repair and changes made.

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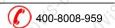
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20			Page	e 80 of 81		Report No	::OViS2024	05008L-R1		
VIS-CERT	<u> </u>	4		2		2	<u> </u>	<u> </u>		
EN 60034-1									C.CE.	
CI.	Requirement	- Test			Resi	ult - Remark	<	Verdict	710	01/12

	EN 60034-1		
CI.	Requirement - Test	Result - Remark	Verdict
á			á
, Wil	they are intended for assembly in apparatus having supplementary insulation, or	Ch. M.P.Ch. M.P.Ch.	N/A
. ·	3) they have rated voltages up to 50V a.c. or 120V d.c. and are intended for use on SELV circuits.	SERI CLERI	N/A
i one	Machines with rated voltages greater than AC 50 V or DC 120 V, but not exceeding AC 1 000 V or DC 1 500 V terminal for earth conductor situated in vicinity of terminals for line conductors, inside terminal box (if provided); machines having rated outputs exceeding 100 kW provided with in addition, with earth terminal fitted on frame	Earth terminal fitted on frame covered by terminal box.	P
El Ovie	Machines with rated voltages greater than AC 1 000 V or DC 1 500 V provided with earth terminal on frame and in addition, means inside terminal box for connecting conducting cable sheath (if any)	Rated voltage not exceeding 1 000 V.	N/A
	Accessible conducting parts have good electrically conducting connection with earth terminal; if all bearings and rotor winding of machine are insulated, shaft electrically connected to earth terminal (unless manufacturer and purchaser agree to alternative means of protection)	Bearings not insulated	P
OVI	If earth terminal provided in terminal box, earth conductor made of same metal as live conductors	ONISION ONISION ON	N/A
ei Nie	If earth terminal provided on frame, earth conductor made of another metal, proper consideration given to conductivity of conductor	SERT WESTERN WESTERN	S CP
£	Earth terminal designed to accommodate earth conductor of cross-sectional area in accordance with table 19	SERT SERT SERT	N/A
011	Cross-sectional area of live conductors (mm2) :	0, 0, 0,	N/A
1	Cross-sectional area of earth conductor (mm2):	the the the	N/A
0119	The earth terminals shall be identified in accordance with IEC60445	ovision ovision ovi	Р
11.2	Shaft-end key(s)	CHRI CHRI	N/A
eri ovis	If machine shaft end provided with one or more keyways, keyway provided with full key of normal shape and length		N/A
		, CV , CV , S, CV ,	S
2	TOLERANCES		Р
<.	Tolorancos as specified in table 20	A A A	۵

(A)		r di		and len		ied with full	key of flor	Illai			IN/A	28	
S		3	5 .0	CV	.5	.5	.5.0	.5	.5	·S.CV	.5	.S.C.	
7/2	01/1	12	TOLE	RANCE	S						Р	7/	
C.P.		Ć.	Tolera	nces as	specified	in table 20	al Ri	-CR	at Ri	all Ki	P	al Ri	
1.5.01		3*	5, , 6	5	,5	,5	.5	,,5,0	1.5	, 5	,,5	1.5.01	
		13	Electr	omagne	etic comp	oatibility (E	MC)	See	EMC test	report	N/A	4	

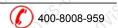
		Tolerances as specified in table 20		P
	,5,0	15 15 15	5,000,000,000	9
	13	Electromagnetic compatibility (EMC)	See EMC test report	N/A
	13.1	General (see the EMC test reports)	CERT CERT CERT	N/A
1:2, 01:2,	01/15	01/2 01/2 01/2 01/2 01/2	is ones ones	5
		y the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended f		

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	EN 60034-1		
CI.	Requirement - Test	Result - Remark	Verdict
<u> </u>			
OViS.	Rotating machine with rated voltage not exceeding AC 1 000 V or DC 1 500 V	Wisich Wisich	N/A
gi g	Electronic components mounted inside rotating electrical machine and essential for its operation	No electronic components mounted inside rotating	N/A
13.2	Immunity 11 11 11 11 11 11 11 11 11 11 11 11 11	ovis ovis	N/A
13.2.1	Machines not incorporating electronic circuits		, QÍ
et ovisi	Machines without electronic circuits are not sensitive to electromagnetic emissions, no immunity tests are required.	St NE NE SE	N/A
13.2.2	Machines incorporating electronic circuits	, CV . S. CV . S. CV	N/A
EL CAL	As electronic circuits which are incorporated in machines generally utilize components that are passive, immunity tests are not required.	THE SUPPLY SUPPLY SECTION	N/A
13.3	Emission	01/10 01/10 0	N/A
13.3.1	Machines without brushes	油 油	N/A
Nis.	Radiated and conducted emissions shall comply with the requirements of CISPR 11, Class B, Group 1, see Table B.1	A NISON OFFICE	N/A
13.3.2	Machines with brushes	(d) (e) (d)	N/A
(i)	Radiated and conducted (if applicable) emissions shall comply with the requirements of CISPR 11, Class A, Group 1, see Table B.2	CIETY OF OTHER OF	N/A
13.4	Immunity tests	0, 0, 0	N/A
	Immunity tests are not required.	the the the	N/A
13.5	Emission tests	, Wisio Wisio	N/A
i c	Type tests shall be carried out in accordance with CISPR 16 as applicable	CISPR 11, CISPR 14 and	N/A
13.5.1	Machines without brushes	Nist Nist	N/A
	Machines without brushes shall comply with the emission limits of 13.3.1.	HE CHE CHE	N/A
13.5.2	Machines with brushes	Nisi Nisi	N/A
~ 1	Machines with brushes, when tested at no-load,		N/A





Detail of: COSMO-C 32-12-180



Detail of: COSMO-C 32-12-180



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Detail of: COSMO-C 32-12-180



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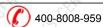
Detail of: COSMO-C 32-12-180



Detail of: Internal view for COSMO-C 32-12-180

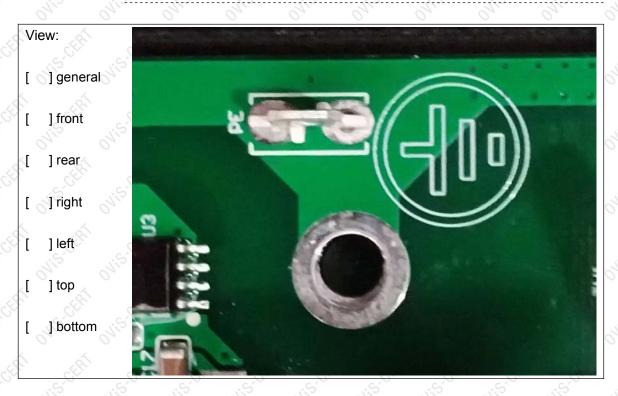


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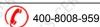
Detail of: Earthing for COSMO-C 32-12-180



Detail of: Control panel for COSMO-C 32-12-180



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Detail of: Power cord for COSMO-C 32-12-180



Detail of: Plug for COSMO-C 32-12-180



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REMARKS

1. This report is invalid without the seal of special stamp for OViS test report and invalid if

altered.

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

and invalid if altered.

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 directly

by the customer and accepted by the test organization, the customer shall not propagandize

improperly without permission by OViS.

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

/ "means "not test".

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