

TEST REPORT

EN 60 335-1 1994

Safety of household and similar electrical appliances
 Part 1: General requirements

Report

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 Contents..... : 7 pages

Testing laboratory

Name : CMC Centro Misura Compatibilità S.r.l.
 Address..... : Via S. Maria, 84 - 36030 - Sarcedo (VI) - Italy - tel. fax 0445 / 344184
 Testing location : as above

Client

Name : BFT S.p.a.
 Address..... : Via Lago di Vico, 44
 : 36015 Schio (VI)

Test specification

Standard..... : EN 60335-1 '94 , EN 60335-1/A11 '95, EN 60335-1/A1 '96, EN 60335-1/A12 '96, EN 60335-1/A13 '98 and EN 60335-1/A14 '98
 Procedure deviation..... : N.A.

Test item

Description : Arm automation for swing gate
 Trademark : BFT
 Model and/or type reference : SUB G
 Manufacturer : Same as client
 Serial Number : ----
 Rating(s) : 230V~ 50Hz 250W IP57

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





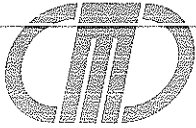
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1. Particulars: test item vs. test requirements

Nature of supply	: a.c.
Class of protection against electrical shock	: I
Degree of protection against moisture	: IPX7
Type of cord attachment.....	: Y
Type of mounting	: Yes
- building-in.....	: Yes
- portable.....	: No
- to be fixed to a support	: No
- hand-held.....	: No
Switch.....	: No
Thermostat.....	: No
Temperature limiter.....	: No
Thermal self-resetting cut-out	: Yes
Electronic circuit	: No
Programme controller.....	: No
Timer	: No
Stationary appliance	: Yes
Appliance kept in the hand.....	: No
Appliance continuously loaded by hand	: No
Power supply cord provided	: Yes
Thermostat without an OFF position	: No
Energy regulator without an OFF position.....	: No
Motor with capacitor in auxiliary winding.....	: Yes
Automatic control in flexible cable or cord	: No
Series motors incorporated.....	: No
Connection to water supply mains	: No
Length of cord < 2 m.....	: Yes
Appliance intended for outdoor use.....	: Yes
Drain hole provided.....	: No
Contact opening \geq 3 mm in each pole (A statement instructions);	: Yes
Mercury switch provided	: No



2. Test case verdicts

Test case does not apply to the test object.....: N(A.)
Test item does meet the requirement: P(ass)
Test item does not meet the requirement: F(ail)
Test item is not performed: NE (Not Executed)

3. Testing and sampling

Date of receipt of test item: 28.10.99
Date of beginning of tests.....: 14.01.00
Date of end of tests.....: 31.01.00
.....:

Appliance used for testing was picked up by the manufacturer, at the end of the production process with random criterion

4. General remarks

Results are written following the exactly sequence of the performed measurements.

"(see remark #)" refers to a remark appended to the report.

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

Throughout this report a point is used as decimal separator.

Measurement uncertainty was in accordance with CMC INC_M rev. 3.0 document issued on 15.10.99.

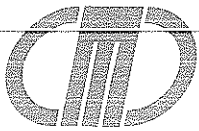
Test reported in this report marked by wording: "Not accredited by SINAL" are not part of the SINAL accreditation of this laboratory

5. Copy of marking plate

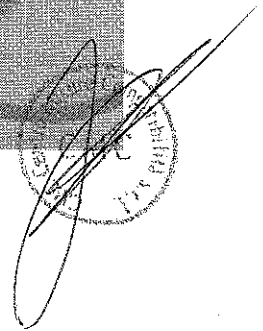
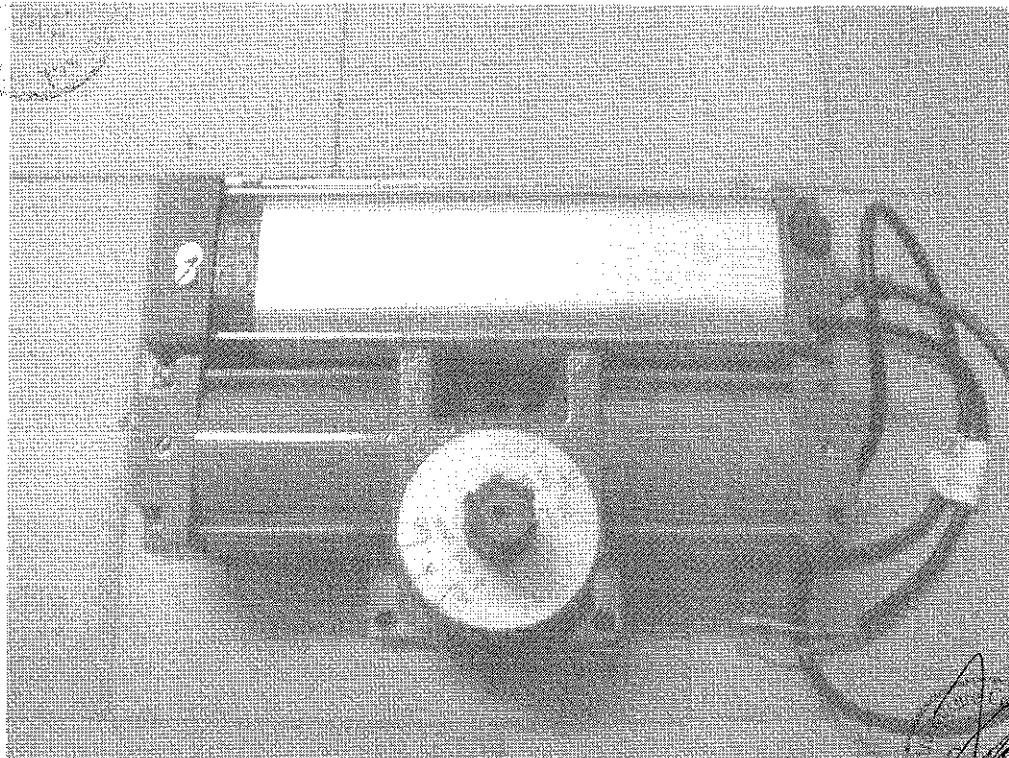


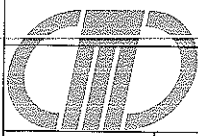
6. Equipments list

<i>Equipment</i>	<i>Model</i>	<i>Description</i>	<i>Serial number</i>	<i>Precision</i>	<i>Due date</i>
CMC B001	SM001	Test pin	---	--	05/2002
CMC B002	SM002	Test probe	---	--	05/2002
CMC B003	SMIP2X	Test finger IPX2	---	--	05/2002
CMC B004	SMIP3X	Straight rigid steel wire of 2.5mm diameter-length 100mm	---	--	05/2002
CMC B005	SMIP4X	Straight rigid steel wire of 1.0mm diameter-length 100mm	---	--	05/2002
CMC B006	HD 8802-TP647/74	Digital thermometer	291096D294	± 2 °C	06/2000
CMC B008	8170 CF	HV tester	1162	Cl. 1	06/2000
CMC B009	8270 CL	Insulation Tester	372	Cl. 1	06/2000
CMC B010	9170 DG	Security circuit res tester	334	Cl. 1	06/2000
CMC B011	1800300	Calliper	---	± 0.05 mm	06/2000
CMC B012	SMIPX5	Hose nozzle IPX5	---	--	06/2001
CMC B013	SMIPX6	Hose nozzle IPX6	---	--	06/2001
CMC B014	SMAIPX56	Test device for hose nozzle	---	--	06/2001
CMC B015	FG-5000	Digital force gauge	L398212	± 0.2 %	06/2000
CMC B016	F22.50	Spring-operated impact-test apparatus	9709349	± 0.02 J	09/2000
CMC B018	Art. N. 02.04	Ball-pressure apparatus	26	--	09/2001
CMC B019	580/25F	Dinamometric screwdriver	7GT035996	± 4 %	06/2000
CMC B020	SM004	Leakage current tester	---	Cl. 0.5	06/2000
CMC B022	34970A	Switch unit and thermocouple	US37005788	± 2 °C	06/2000
CMC B026	UY 245 IU	Climatic chamber	1059.78	± 2 °C	06/2000
CMC B027	Art. N. 01.02-A	Rigid test finger	064/98	--	09/2001
CMC B028	Art. N. 01.10	Test finger nail	065/98	--	09/2001
CMC B029	SM005	Glow Wire Test	---	± 15 °C	06/2000
CMC B031	BF01	Steel Ball	---	--	09/2004
CMC A015	CIP01	IP Chamber IPX1,2,3,4	---	± 5 %	05/2000
CMC A016	CU01	Humidity test chamber	---	± 2 %	05/2000
CMC S005	2503	Power supply analyser	2503592013	± 0.15 %	01/2001
CMC S026	C6530	AC Source	653000095	± 1 %	01/2001
CMC S042	Fluke 73	Multimeter	67771510	± 2.5 %	06/2000



7. Photographs of the appliance





Clause	Requirement - Test	Result - Remark	Verdict
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8. Report Form EN 60335-1 1994

Clause	Requirement - Test	Result - Remark	Verdict
4	GENERAL CONDITIONS FOR THE TESTS		P
	Tests performed according to Cl. 4, e.g. nature of supply, sequence of testing, etc.		P
4.8.1	Test frequency (Hz)	50Hz	P
6	CLASSIFICATION		P
6.1	Protection against electric shock: Class I, II, III	Class I	P
6.2	Protection against harmful ingress of water	IPX7	P
15	MOISTURE RESISTANCE		P
15.1	Enclosure provides the degree of moisture protection according to classification of appliance (tests 15.1.1 and 15.1.2)	IPX7	P
	Withstand electric strength test specified in 16.3		P
	No trace of water on insulation which can result in a reduction of distances and clearances below values specified in 29.1		P
15.1.1	Appliance subjected to test as specified		P
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test		N
	Built-in appliance installed according to the manufacturer's instruction		P
	Other appliances tested as specified		N
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		P
16.1	No excessive leakage current and adequate insulation and electric strength (tests 16.2 and 16.3)		P
16.3	Electric strength tests (values in table 5)	(see appended table)	P
22	CONSTRUCTION		P
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices		P

16.3	TABLE: Electric strength measurements		P
Test voltage applied between:		Test voltage (V)	Breakdown
Live parts and accessible metal parts		1250	No
Accessible parts and the supply cord wrapped with metal foil		2500	No