


Prüfbericht-Nr.: <i>Test Report No.:</i>	15081337 001	Auftrags-Nr.: <i>Order No.:</i>	154076759	Seite 1 von 16 <i>Page 1 of 16</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	01.12.2014	
Auftraggeber: <i>Client:</i>	Zhejiang B&J Electrical Co., Ltd. / Lutoushi Zone, Liushi Town, Wenzhou city zhejiang Province 325600, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Empty Enclosure			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	BJS1			
Auftrags-Inhalt: <i>Order content:</i>	LVD approval			
Prüfgrundlage: <i>Test specification:</i>	EN 62208:2011			
Wareneingangsdatum: <i>Date of receipt:</i>	03.02.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A00962443 001-002			
Prüfzeitraum: <i>Testing period:</i>	03.02.2015 – 13.03.2015			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
27.03.2015	Zeng Yi / PE	27.03.2015	Paulus Hou / Reviewer	
<i>Datum</i> <small>Date</small>	<i>Name / Stellung</i> <small>Name / Position</small>	<i>Unterschrift</i> <small>Signature</small>	<i>Datum</i> <small>Date</small>	<i>Name / Stellung</i> <small>Name / Position</small>
				
Sonstiges / Other:				
This report was created for type test of empty enclosure.				
No deviation exists between EN 62208:2011 and IEC 62208:2011, the test report template of IEC 62208:2011 (Second Edition) was used in this report.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet				
Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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<p>TEST REPORT IEC 62208 Empty enclosures for low-voltage switchgear and controlgear assemblies – General requirements</p>	
Report Number	15081337 001
Date of issue	See cover page
Total number of pages	16
Applicant's name	Zhejiang B&J Electrical Co., Ltd.
Address	Lutoushi Zone, Liushi Town, Wenzhou city Zhejiang Province 325600, P.R. China
Test specification:	
Standard	IEC 62208:2011 (Second Edition)
Test procedure	LVD approval
Non-standard test method	N/A
Test Report Form No.	IEC62208B
Test Report Form(s) Originator	OVE
Master TRF	Dated 2013-01
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Test item description	Empty Enclosure
Trade Mark	
Manufacturer	Zhejiang B&J Electrical Co., Ltd.
Model/Type reference	BJS1
Ratings	IP66; IK10

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	Testing Laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.
Testing location/ address :		B1-13F No.177,Lane 777,West Guangzhong Road, Zhabei District, Shanghai, CHINA
<input type="checkbox"/>	Associated CB Testing Laboratory:	
Testing location/ address :		
Tested by (name + signature) :		See cover page
Approved by (name + signature) :		See cover page
<input type="checkbox"/>	Testing procedure: TMP	
Testing location/ address :		
Tested by (name + signature) :		
Approved by (name + signature) :		
<input type="checkbox"/>	Testing procedure: WMT	
Testing location/ address :		
Tested by (name + signature) :		
Witnessed by (name + signature) :		
Approved by (name + signature) :		
<input type="checkbox"/>	Testing procedure: SMT	
Testing location/ address :		
Tested by (name + signature) :		
Approved by (name + signature) :		
Supervised by (name + signature) .. :		

List of Attachments (including a total number of pages in each attachment): N/A	
Summary of testing:	
Tests performed (name of test and test clause): Full tests	Testing location: TÜV Rheinland (Shanghai) Co., Ltd.
Summary of compliance with National Differences List of countries addressed: N/A	
<input type="checkbox"/> The product fulfils the requirements of _____ (insert standard number and edition and delete the text in parenthesis or delete the whole sentence if not applicable)	

Copy of marking plate The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBS that own these marks.
 <p> B&J® RoHS CE WALL MOUNT ENCLOSURE Ref.: BJS1-Metallic, Wall Mounting, RAL7032 IP66 to EN60529 NEMA4, IK10 Xiangyang Industrial zone, Liushi, Wenzhou, Zhejiang, P.R.C </p>

Test item particulars	Classification
Type of material	insulating / metallic combination of insulating and metallic
Method of fixing	floor-standing / wall mounting / flush mounting / pole mounting
Intended location	Outdoor / Indoor
Degree of protection	IP 66 / IK10
Rated insulation voltage (if applicable)	N/A
Possible test case verdicts:	
- test case does not apply to the test object.....	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement.....	F (Fail)
Testing :	
Date of receipt of test item	01.12.2014
Date (s) of performance of tests	03.02.2015 to 13.03.2015
General remarks:	
<p>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.</p>	
<p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60529:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
<p>When differences exist; they shall be identified in the General product information section.</p>	
Name and address of factory (ies)	Zhejiang B&J Electrical Co., Ltd. / Lutoushi Zone, Liushi Town, Wenzhou city Zhejiang Province 325600, P.R. China
General product information:	
<p>Wall-mounting outdoor use empty enclosure with two locks Declared permission load on metallic enclosure: 15kg; on door: 5kg</p>	

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
6	INFORMATION TO BE GIVEN REGARDING THE ENCLOSURE		
6.2	Marking		
	The enclosure shall be marked as follows:		
	- Name, trade mark or identification mark of the enclosure manufacturer.	B&J [®]	P
	- Type designation or identification number of the enclosure.	BJS1	P
	The marking shall be durable and easily legible and may be inside the enclosure.		P
	Compliance is checked according to the test of 9.3 and by inspection.		P
	The marking for recycling of plastic parts follows ISO 11469.		N/A
6.3	Documentation		
6.3.1	General		
	The manufacturer's documentation includes:		
	- relevant constructional and mechanical characteristics		P
	- enclosure classification (see Clause 4)		P
	- instruction necessary for the correct handling, assembling, mounting and service conditions of the enclosure		P
6.3.2	- dimension		P
6.3.3	- mounting arrangements		P
6.3.4	- permissible loads	15kg for enclosure 5kg for door	P
6.3.5	- lifting devices, if necessary		N/A
6.3.6	- provisions for protection against electric shock		P
	- applicable service conditions (see Clause 7);		P
	- location and size of protected space		P
	- data of thermal power dissipation capability;		N/A
	- rated insulation voltage of enclosures constructed of an insulating material		N/A
	- degree of protection (IK code, see 8.7)	IK10	P
	- degree of protection (IP code, see 8.8)	IP66	P
	Data for the thermal power dissipation capability		N/A

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
7	SERVICE CONDITIONS		
7.1	Manufacturer has specified the locations for which the enclosure is intended		P
7.2	Normal service conditions		
7.2.1	Ambient air temperature		
7.2.1.1	- for indoor locations (max. +40°C, average over 24 h ≤ 35°C; lower limit : -5°C)		N/A
7.2.1.2	- for outdoor locations (max. +40°C, average over 24 h ≤ 35°C; lower limit : -25°C)		P
7.2.2	Humidity conditions		
7.2.2.1	- for indoor locations (≤ 50% RH at max. +40°C or for example 90% RH at +20°C)		N/A
7.2.2.2	- for outdoor locations (up to 100% RH at max. +25°C)		P
7.3	Special service conditions, if applicable		N/A
7.4	Conditions during transport and storage, if applicable		N/A
8	DESIGN AND CONSTRUCTION		
8.1	General		
	The enclosure constructed of materials capable of withstanding the mechanical, electrical and thermal stresses, as specified in clause 9, as well as the effects of humidity which are likely to be encountered in normal use.		P
	Protection against corrosion checked by the test of 9.13		P
	For enclosures or parts of enclosures made of insulating materials, thermal stability, resistance to heat, fire and weathering shall be verified according to tests of 9.9 and 9.12		N/A
8.2	Static loads		
	Compliance of the permissible load that the enclosure and its doors are able to carry is checked according to the test of 9.4		P
8.3	Lifting and transport support		
	Where required, enclosures are provided with appropriate lifting devices or transport means (according to the test of 9.5)		N/A
8.4	Access to the interior of the enclosure		
	Doors or removable covers allow adequate access to the protected space. Access may be restricted by the use of a key or tool	By the use of key	P

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
	Cable gland plates and covers which are removable from the outside require the use of a tool.		N/A
8.5	Protective circuit		
	Metallic enclosures shall ensure the electric continuity		
	- by conductive structural parts of the enclosure		P
	- by separate protective conductor to earth		P
	After remove of a removable part protective circuit of the remainder shall not be interrupted		P
	For lids, doors, removable covers and the like, the usual metal screwed connections and metal hinges may ensure continuity of the protective circuit provided no electrical equipment is attached to them		P
	Where these are intended for mounting electrical equipment, additional means shall be provided to ensure the continuity of the protective circuit.		P
	Compliance is checked according to the test of 9.11		P
	The enclosure manufacturer shall provide means to facilitate the connection of the external protective conductor by the final assembly manufacturer.		P
8.6	Dielectric strength		
	Enclosure constructed of an insulating material fulfill the dielectric test of 9.10		N/A
8.7	Degree of protection (IK-Code)		
	Degree of protection according to IEC 62262	IK10	P
	Compliance is checked according to the test of 9.7		P
8.10	Degree of protection (IP-Code)		
	Degree of protection according to IEC 60529	IP66	P
	Compliance is checked according to the test of 9.8		P
9	TYPE TESTS		
9.2	General conditions of tests		
	The enclosures under test are mounted and installed as in normal use according to the enclosure manufacturer's instructions		P
	Unless otherwise specified, the tests shall be carried out at an ambient temperature of between +10 °C and +40 °C		P
	Number of samples and order of test per sample according to Table 1	See Table 1	P

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
9.3	Marking		
	Markings made by moulding, pressing or similar and labels with a laminated plastic covering are not submitted to this test		
	Test: 15 s rubbing with water and then 15 s rubbing with petroleum spirit		P
	After the test markings easily legible		P
9.4	Static loads		
	The enclosure fitted with all its required components to support the permissible load is loaded with a weight of 1,25 times the permissible load as declared by the manufacturer	Enclosure: 15kg(permissible load) Test load: 18,75kg Door: 5kg (permissible load) Test load: 6,25kg	P
	The loads are arranged on the mounting plate or switchgear and controlgear supports and on the door evenly distributed as specified by the enclosure manufacturer		P
	Loads retained for 1h in the closed position		P
	Enclosure constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material tested at 70 °C		N/A
	Closed door opened 5 times through 90°		P
	Resting in open position: 1 min.		P
	For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this part of the test may be carried out at ambient temperature external to the heating cabinet		N/A
	After the test enclosure shows no cracks or permanent distortions		P
	During the test no deflections which could impair any of its characteristics		P
9.5	Lifting		
	Enclosure loaded as in 9.4 with its door closed, lifted with the specified lifting means and in the manner defined by the manufacturer	Enclosure: kg	N/A
	3 times: from standstill position in a vertical plane, returning to standstill position		N/A
	From standstill position to a height of ≥ 1m for 30 min, without any movement		N/A

IEC 62208				
Clause	Requirement + Test	Result - Remark		Verdict
	3 times: from standstill position to a height of ≥ 1 m and moved $10 \pm 0,5$ m horizontally; then set down. One cycle: $1 \text{ min} \pm 5 \text{ s}$ at uniform speed			N/A
	After the test enclosure shows no cracks or permanent distortions			N/A
	During the test no deflections which could impair any of its characteristics			N/A
9.6	Axial loads of metal inserts			
	Axial load according to table 2 applied for 10s	Size: M8	Load: 500N	P
	After the test:			
	- the insert is in its original position			P
	- no sign of movement			P
	- no cracks and splits in the material			P
9.7	Degree of protection against external mechanical impacts (IK code)			
	- according to IEC 62282 by means of a test hammer suitable for the dimensions of the enclosure, the enclosure is fixed on a rigid support as for normal use			P
	The impact energy shall be applied:	IK10 / Impact Energy = 20J		P
	- 3 times to each exposed surfaces in normal use whose largest dimensions is not above 1m			P
	- 5 times to each exposed surfaces in normal use whose largest dimensions is greater than 1m			N/A
	Impacts applied with even distributed over the faces of the enclosure			P
	After the test:			
	- enclosure continue to provide the IP code and dielectric strength			P
	- removable covers are removed and reinstalled			P
	- doors opened and closed			P
9.8	Degree of protection (IP-Code)			
9.8.1	Degree of protection against access to hazardous parts and against the ingress of solid foreign objects indicated by first characteristic numeral			
9.8.1.1	Protection against access to hazardous parts			
	Subclauses 12.1 and 12.2 of IEC 60529 apply	IP66		P
	Access probe shall not enter the protected space			P
9.8.1.2	Degree of protection against the ingress of solid foreign objects			

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
	For enclosures IP2X, IP3X, IP4X, 13.2 and 13.3 of IEC 60529 apply.		N/A
	For IP 5X enclosures, 13.4, category 2 (without vacuum pump) and 13.5 (without vacuum pump) of IEC 60529 apply. Ingress of talcum powder into protected space is verified as described		N/A
	For enclosures IP6X, 13.6 of IEC 60529 apply. No talcum powder shall be observable inside the enclosure at the end of the test	IP66	P
9.8.2	Degree of protection against ingress of water as indicated by the second characteristic numeral		
	Test according to clauses 14.1 and 14.2 of IEC 60529	IP66	P
	After the test, water has not ingressed into the protected space		P
9.8.3	Degree of protection against hazardous parts as indicated by additional letter.		
	Test according to clause 15 of IEC 60529		N/A
	The access probe does not touch the surface of the protected space.		N/A
9.9	Properties of insulating materials		
9.9.1	Thermal stability		
	Test according to IEC 60068-2-2 Test Bb, temperature 70°C, with natural air circulation, for a duration of 168 h		N/A
	After the treatment:		
	Enclosures are kept at ambient temperature and relative humidity between 45% and 55% for 4 days (96h)		N/A
	- enclosure shows no crack without additional magnifications		N/A
	- material became not sticky or greasy		N/A
	The forefinger wrapped in a dry piece of rough cloth is pressed with a force of 5N against the enclosure.		N/A
	No traces of the cloth remain to the enclosure and the material of the enclosure doesn't stick to the cloth.		N/A
9.9.2	Resistance to normal heat		
	The suitability of the insulating materials to resist effects of heat shall be verified either by reference to the insulation temperature index (determined e.g. by the methods of IEC 60216 series), or by compliance to IEC 60085		N/A

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
9.9.3	Resistance to abnormal heat and to fire		
	Test in accordance with the principles of IEC 60695-2-10 and the details of IEC 60695-2-11.		N/A
	Tested as described in clause 4 of IEC 60695-2-11		N/A
	Apparatus used as described in clause 5 of IEC 60695-2-11		N/A
	Preconditioning of the samples:		
	Storage at 15-35°C / RH 35-45 % for 24h		N/A
	Thermocouple of test apparatus calibrated in accordance with clause 6 of IEC 60695-2-10		N/A
	During test:		
	- clause 8 of IEC 60695-2-10 followed		N/A
	- clause 10 of IEC 60695-2-11 followed		N/A
	Temperature of the tip of the glow wire:		
	- for parts retaining current-carrying parts in position: 960 ± 15°C		N/A
	Time at which sample ignited:	$t_i = \dots s$	
	Time when sample extinguished:	$t_e = \dots s$	
	- for parts intended to be installed in hollow Walls: 850 ± 15°C		N/A
	Time at which sample ignited:	$t_i = \dots s$	
	Time when sample extinguished:	$t_e = \dots s$	
	All other parts: 650 ± 15°C		N/A
	Time at which sample ignited:	$t_i = \dots s$	
	Time when sample extinguished:	$t_e = \dots s$	
	No visible flame, no sustained glowing or flames and glowing extinguish within (30 ± 1)s		N/A
	No burning of the tissue paper, no scorching of the pinewood board		N/A
9.10	Verification of dielectric strength		
9.10.1	General		
	This test applies to enclosures where insulating material is used, even in combination with non-insulating materials		
9.10.2	Preconditioning		

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
	Enclosures are placed in a humidity cabinet (relative humidity between 91% and 95%) and an air temperature of (40±2) °C for 2 days (48h)		N/A
9.10.3	Enclosures without metal elements inside the protective space		
	An r.m.s voltage according to 10.9.4 of IEC 61439-1 is applied for 1 min between 2 metal foils, one in contact with the external surface and the other inside the enclosure at the limit of the protected space		N/A
	Applied voltage:	U = V	N/A
9.10.4	Enclosure having metal elements in the protected space		
	All internal metallic parts are connected to a bar, a voltage according to 10.9.4 of IEC 61439-1 is applied for 1 min. between a metal foil in contact with the external surface and the bar.		N/A
	Applied voltage:	U = V	N/A
9.10.5	Results to be obtained		
	- samples show no damage impairing their further use		N/A
	- no flashover or breakdown occurs during the test		N/A
9.11	Continuity of the productive circuit		
	Exposed conductive parts of the enclosure connected to the protective circuit		P
	Resistance not exceeding 0,1 Ω	Measured: Max. 0,03Ω	P
9.12	Resistance to ultra-violet (UV) radiation		
	This test applies only to enclosures and external parts of enclosures intended to be installed outdoors and which are constructed of insulating materials or metals that are entirely coated by synthetic material. Representative samples of such parts shall be subjected to the following test		
	UV test according to ISO 4892-2 method A, cycle 1 with a total test period of 500 h		N/A
	For enclosures constructed of insulating materials compliance is checked by verification		
	- flexural strength (according to ISO 178) of insulating materials have 70% min. retention		N/A
	- charpy impact (according to ISO / EN ISO 179) of insulating materials have 70% min. retention		N/A
	After the test samples are subjected to the glow wire test of 9.9.3		N/A

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
	For compliance, enclosures constructed of metals entirely coated by synthetic material, the adherence of the insulating material shall have a minimum retention of category 3 according to ISO 2409 (a cross-cut area greater than 15 %, but not greater than 35 % is affected)		N/A
	Samples show no cracks or deterioration		N/A
9.13	Resistance to corrosion		
9.13.1	General		
	Metallic enclosures and external metallic parts of insulating and combined enclosures are tested to verify that they ensure protection against corrosion		P
	In all cases hinges, locks and fastenings have to be tested		P
9.13.2	Test procedure		
9.13.2.1	Severity test A		
	This test is applicable to:		
	- metallic indoor enclosures		N/A
	- external metallic parts of indoor enclosures		N/A
	- internal metallic parts of indoor and outdoor enclosures upon which intended mechanical operation may depend		N/A
	The test consists of:		
	- 6 cycles of 24 h each to damp heat cycling test according to IEC 60068-2-30 (Test Db) at (40 ± 3) °C and relative humidity of 95 %		N/A
	- 2 cycles of 24 h each to salt mist test according to IEC 60068-2-11; (Test Ka: Salt mist), at a temperature of (35 ± 2) °C		N/A
9.13.2.2	Severity test B		
	This test is applicable to:		
	- metallic outdoor enclosures		P
	- external metallic parts of outdoor enclosures		P
	The test comprises two identical 12 day periods		
	Each 12 day period comprises:		
	- 5 cycles of 24 h each to damp heat cycling test according to IEC 60068-2-30 (Test Db) at (40 ± 3) °C and relative humidity of 95 %		P

IEC 62208			
Clause	Requirement + Test	Result - Remark	Verdict
	- 7 cycles of 24 h each to salt mist test according to IEC 60068-2-11; (Test Ka: Salt mist), at a temperature of $(35 \pm 2) ^\circ\text{C}$		P
9.13.3	Results to be obtained		
	After the test, the enclosure or samples shall be washed in running tap water for 5 min, rinsed in distilled or demineralized water then shaken or subjected to air blast to remove water droplets. The specimen under test shall then be stored under normal service conditions for 2 h		P
	Compliance is checked by visual inspection to determine that:		
	- there is no evidence of iron oxide, cracking or other deterioration more than that allowed by ISO 4628-3 for a degree of rusting Ri1		P
	- the mechanical integrity is not impaired		P
	- seals are not damaged		P
	- doors, hinges, locks, and fastenings work without abnormal effort		P
9.14	Thermal power dissipation capability		
	The thermal power dissipation data provided by the manufacturer (see 6.3.1) is determined by following test:		
	- either in accordance with 10.10.4.2.2 of IEC 61439-1:2011		N/A
	- or by a calculation method, e.g. according to IEC/TR 60890		N/A

Table 1 Number of samples to be tested and order of test per sample					
Subclause:	Test	Sample 1 Order / verdict	Sample 2 Order / verdict	Sample 3 Order / verdict	Representative sample (see 9.12) Verdict
9.4	Static loads	1 / Pass			
9.5	Lifting	2 / N/A			
9.6	Axial loads of metal inserts	3 / Pass			
9.7	Degree of protection against external mechanical impacts (IK code)	4 / Pass			
9.8	Degree of protection against access to hazardous parts and against ingress of solid objects and/or water (IP code)	5 / Pass			
9.9.1	Thermal stability		1 / N/A		

IEC 62208					
Clause	Requirement + Test	Result - Remark			Verdict
9.9.2	Resistance to heat		2 / N/A		
9.9.3	Resistance to abnormal heat and fire		3 / N/A		
9.10	Dielectric strength	6 / N/A			
9.11	Continuity of the protective circuit	7 / Pass		3 / Pass	
9.12	Resistance to ultra-violet (UV) radiation				^a / N/A
9.13	Resistance to corrosion			2 / Pass	
9.14	Thermal power dissipation capability			1 ^b / N/A	
9.3	Marking	8 / Pass			
^a	Tests carried out on representative sample only				
^b	Only appliance if verified by test				