



<b>TEST REPORT</b> <b>IEC 60884-1</b> <b>Plugs and socket-outlets for household and similar purposes</b> <b>Part 1: General requirements</b>	
<b>Report Number.....</b>	<b>MI23-0089579-01</b>
<b>Date of issue.....</b>	<b>2023/06/06</b>
<b>Total number of pages .....</b>	<b>57</b>
<b>Name of Testing Laboratory preparing the Report .....</b>	<b>IMQ S.p.A. Milano</b> IT - 20138 Milano - Via Quintiliano, 43
<b>Applicant's name .....</b>	<b>4BOX SRL</b>
<b>Address.....</b>	VIA FILIPPO BRUNELLESCHI 16, 20146 MILANO
<b>Test specification:</b>	
<b>Standard .....</b>	IEC 60884-1:2002, AMD1:2006, AMD2:2013
<b>Test procedure .....</b>	--
<b>Non-standard test method .....</b>	N/A
<b>Test Report Form No. ....</b>	IEC60884_1G
<b>Test Report Form(s) Originator ....</b>	IMQ S.p.A.
<b>Master TRF .....</b>	Dated 2019-05-07
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<b>Test item description</b> ..... :	Fixed socket-outlets for domestic purposes	
<b>Trade Mark</b> ..... :	4BOX	
<b>Manufacturer</b> .....	4BOX SRL	
<b>Model/Type reference</b> .....	P503	
<b>Ratings</b> .....	16 A 250 V ~	
<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	<b>IMQ S.p.A. Milano</b>
Testing location/ address .....		Italy – 20138 Milano – Via Quintiliano, 43
Tested by (name, function, signature) .....		Demartini Andrea (Laboratory Technician)
Approved by (name, function, signature).....		Alessandro Primicerio (Laboratory Manager)
<b>Testing procedure: CTF Stage 1:</b>		
Testing location/ address .....		N/A
Tested by (name, function, signature) .....		N/A
Approved by (name, function, signature).....		N/A
<b>Testing procedure: CTF Stage 2:</b>		
Testing location/ address .....		N/A
Tested by (name + signature).....		N/A
Witnessed by (name, function, signature) .....		N/A
Approved by (name, function, signature).....		N/A
<b>Testing procedure: CTF Stage 3:</b>		
<b>Testing procedure: CTF Stage 4:</b>		
Testing location/ address .....		N/A
Tested by (name, function, signature) .....		N/A
Witnessed by (name, function, signature) .....		N/A
Approved by (name, function, signature).....		N/A
Supervised by (name, function, signature) .....		N/A

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

- Attachment to Test Report IEC 60884-1 "Italian National Differences": 14 pages
- Annex 1 - Dimensional checking (Italian language): 4 pages
- Annex 2 - Photographic documentation: 2 pages

**Summary of testing:**Test performed:

Complete tests

In this test report the requirements concerning the following (clauses and sub-clauses) have been cancelled as not applicable: 12.3 - 14 - 15 - 16.2.2 - 23 and 30.

Testing location:

**IMQ S.p.A. Milano**

Italy - 20138 Milano - Via Quintiliano, 43

**Summary of compliance with National Differences:**

List of countries addressed: **Italy**. See Attachment Form No. IT\_ND\_IEC60884\_1D\_II

☒ **The product fulfils the requirements of Standard: CEI 23-50:2007+V1:2008+V2:2011+V3:2015+V4:2015 (attachment IT01- Part I)**

**Copy of marking plate:**

**P503 16A 250V ~**



(4box logo)

<b>Test item particulars</b> .....	Fixed socket-outlet for domestic purposes
Standard Sheet .....	<b>P40 + 2P11</b> (Italian Standard CEI 23-50:2007 + V1:2008 + V2:2011 + V3:2015 + V4:2015 (attachment IT01- Part I))
Rated current (A) / Rated voltage (V) .....	16 A / 250 V~ ; 10A / 250 V~ See general product information
Degree of protection against access to hazardous parts and against harmful ingress of solid foreign objects .....	<b>IP2X</b> / IP4X / IP5X / IP6X
Degree of protection against harmful ingress of water .....	<b>IPX0</b> / IPX4 / IPX5 / IPX6
Provision for earthing .....	without earthing contact / <b><u>with double earthing contact</u></b>
Method of connecting the cable .....	rewirable / non-rewirable
Type of cable .....	N/A
Nominal cross-sectional areas (mm <sup>2</sup> ) .....	N/A
Type of terminals .....	<b><u>screw-type</u></b> / screwless (rigid) / screwless (rigid and flexible)
Type of connections .....	soldered / welded / crimped / other
<b><u>Socket-outlets:</u></b>	
Degree of protection against electric shock ..	normal protection / <b><u>increased protection</u></b>
Existence of shutters .....	without shutters / <b><u>with shutters</u></b>
Method of application / mounting of the socket-outlet .....	surface-type / <b><u>flush-type</u></b> / semi-flush-type / panel type / architrave-type / portable type / table-type (single/multiple) / floor recessed type / appliance type
Method of installation .....	<b><u>design A</u></b> / design B
Intended for circuits where .....	<b><u>a single earthing circuit provides protective earthing</u></b> / electrical noise immunity is desired for the earthing circuit
Plugs:	
Class of equipment .....	0 / I / II
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing</b> .....	
Date of receipt of test item.....	2023/03/24 BEM (ref. IMQ) no.: 112487 Item(s) sampled and sent by the applicant
Date (s) of performance of tests.....	from 2023-04-03 to 2023-06-06

**General remarks:**

"(See Enclosure #)" refers to additional information appended to the report.  
 "(See appended table)" refers to a table appended to the report.  
 Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

**Throughout this report, the symbol “(\*)” in the “Result - Remark” column and/or in the “Verdict” column refers to a requirement replaced or modified by the Italian Standard: CEI 23-50:2007+V1:2008+V2:2011+V3:2015+V4:2015 (attachment IT01- Part I).**

**Manufacturer's Declaration per sub-clause 4.2.5 of IECCE 02:**

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 .....

☐ Yes ☒ Not applicable

When differences exist; they shall be identified in the General product information section.

**Name and address of factory (ies) .....**


LUMI LEGEND ELECTRICAL CO., LTD.  
 NO.18 LANE 239, BEIHAI ROAD, JIANBEI, NINGBO  
 315032, P.R. CHINA


**General product information and other remarks:**

Type ref.	Description of the fixed socket-outlet
4BP503.AM	2P+E 16A P40 + 2P+E 10A P11, Frontal part white colour
4BP503.L	2P+E 16A P40 + 2P+E 10A P11, Frontal part antracite colour
4BP503.N	2P+E 16A P40 + 2P+E 10A P11, Frontal part white colour
4BP503.NT	2P+E 16A P40 + 2P+E 10A P11, Frontal part tech colour
4BP503.KG	2P+E 16A P40 + 2P+E 10A P11, Frontal part black colour
4BP503.KM	2P+E 16A P40 + 2P+E 10A P11, Frontal part sand colour
4BP503.KW	2P+E 16A P40 + 2P+E 10A P11, Frontal part white colour
4BP503.V14	2P+E 16A P40 + 2P+E 10A P11, Frontal part black colour
4BP503.V19	2P+E 16A P40 + 2P+E 10A P11, Frontal part black colour
4BP503.V19B	2P+E 16A P40 + 2P+E 10A P11, Frontal part white colour
4BP503.V19M	2P+E 16A P40 + 2P+E 10A P11, Frontal part metal colour

Fixed sockets compatible with supporting frames of various brands.

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Clause	Requirement + Test	Result - Remark	Verdict

<b>8</b>	<b>MARKING</b>		
8.1	Accessories marked as follows:		
	- rated current (A) .....	16 A – 10 A	P
	- rated voltage (V) .....	250 V	P
	- symbol for nature of supply .....	~	P
	- manufacturer's or responsible vendor's name .....	4BOX SRL 	P
	- type reference .....	P503	P
	- degree of protection (first characteristic numeral) if higher than 2 .....	--	N/A
	- degree of protection (second characteristic numeral) if higher than 0 .....	--	N/A
	- degree of protection (first characteristic numeral) higher than 4 for fixed socket outlet in which case the second characteristic numeral shall also be marked .....	--	N/A
	- degree of protection (second characteristic numeral) higher than 2 for fixed socket outlet in which case the first characteristic numeral shall also be marked .....	--	N/A
	Socket-outlets with screwless terminals marked with the following:		
	- the length of insulation to be removed .....	--	N/A
	- an indication of the suitability to accept rigid conductors only (if any) .....	--	N/A
8.2	Symbols used: as required in the standard		P
	Marking for the nature of supply placed next to the marking for rated current and rated voltage		P
8.3	Marking of fixed socket-outlets placed on the main part:		
	- rated current, rated voltage and nature of supply		P
	- identification mark of the manufacturer or of the responsible vendor		P
	- length of insulation to be removed, if any		N/A
	- indication of the suitability to accept rigid conductors only for screwless terminals for those socket-outlets having this restriction		N/A
	- type reference		P
	Cover plates necessary for safety purposes and intended to be sold separately: marked with the manufacturer's or responsible vendor's name and type reference		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	IP code, if applicable: marked so as to be easily discernible		N/A
	Fixed socket-outlets classified according to item b) of 7.2.5: identified by a triangle visible after installation unless they have an interface configuration different from that used in normal circuits .....	--	N/A
8.4	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible		N/A
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction		N/A
8.5	Neutral terminals: N .....	--	N/A
	Earthing terminals: [earth symbol] .....		P
	Markings not placed on screws or other easily removable parts		P
	Terminals for conductors not forming part of the main function of the socket-outlet:		
	- clearly identified unless their purpose is self-evident, or		N/A
	- indicated in a wiring diagram fixed to the accessory		N/A
	Identification of such terminals may be achieved by:		
	- their being marked with graphical symbols according to IEC 60417-2 or colours and/or alphanumeric system, or		N/A
	- their being marked with their physical dimensions or relative location		N/A
8.6	Surface-type mounting boxes forming an integral part of socket-outlets having an IP code higher than IP4X, or higher than IPX2, the IP code marked on the outside of its associated enclosure so as to be easily discernible		N/A
8.7	Indication of which position or with which special provision the declared IP of flush-type and semi-flush-type fixed socket-outlets having IP>X0 is ensured		N/A
8.8	Marking durable and clearly legible with normal or corrected vision, without additional magnification. Test: 15 s with water and 15 s with petroleum spirit		P

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Clause	Requirement + Test	Result - Remark	Verdict

<b>9</b>	<b>CHECKING OF DIMENSIONS</b>		<b>*</b>
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets and corresponding gauges, if any	See Attachment and Annex 1	*
	Insertion of plugs into fixed or portable socket-outlets ensured by their compliance with the relevant standard sheets		P
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2	See Attachment and Annex 1	*
9.2	It is not possible to engage a plug with:		
	- a socket-outlet having a higher voltage rating or a lower current rating;		P
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		P
	- a socket-outlet with earthing contact, if the existing plug of the present national system is a plug for class 0 equipment:	See Attachment and Annex 1	*
	Engagement of an existing plugs on the present national system for equipment of class 0 or of class I with a socket-outlet exclusively designed to accept plugs for class II equipment		N/A
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		
	- 150 N (rated current $\leq 16A$ );		P
	- 250 N (rated current $> 16A$ )		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ C$		P
9.3	Deviations from standard sheets made only if they provide technical advantage and do not affect the purpose and safety of accessories complying with standard sheet		N/A
<b>10</b>	<b>PROTECTION AGAINST ELECTRIC SHOCK</b>		<b>*</b>
10.1	Live parts not accessible, even after removal of parts which can be removed without the use of a tool for:		
	Fixed socket-outlets		P
	Plugs when the plug is in partial or complete engagement with a socket-outlet		N/A
	Test with test probe B of IEC 61032		P
	Accessories with elastomeric or thermoplastic material: additional test carried out at $(35 \pm 2) ^\circ C$ with test probe 11 of IEC 61032 (75 N for 1 min)		P



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Clause	Requirement + Test	Result - Remark	Verdict
	During the test: accessories not deform and no live parts accessible		P
	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 8: specimens not show deformation		N/A
10.2	Accessible parts (with exception of small screws and the like for fixing main parts and covers or cover plates): made of insulating material		P
	Cover or cover plates of fixed socket-outlets and accessible parts of portable socket-outlets: made of metal if the requirements of 10.2.1 or 10.2.2 are fulfilled		N/A
10.2.1	Accessible metal parts or accessible metal parts protected by supplementary insulation made by insulating linings or insulating barriers		N/A
	Insulating linings or insulating barriers cannot be removed without being permanently damaged		N/A
	Insulating linings or insulating barriers cannot be replaced in an incorrect position and, if they are omitted, accessories are rendered inoperable or manifestly incomplete		N/A
	There is no risk of accidental contact between live parts and metal covers or cover plates		N/A
10.2.2	Accessible metal parts are reliably connected, through a low-resistance connection, to the earth during fixing		N/A
10.3	Contact between a pin of a plug and a live socket-contact of a socket-outlet not possible while any other pin is accessible	See Attachment	*
	Compliance checked by manual test and by means of gauges with tolerances as specified in table 2	See Attachment	*
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$	See Attachment	*
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride: test carried out with a force of 75 N for 1 min	See Attachment	*
	Fixed socket-outlets provided with metal covers or cover plates: clearance of at least 2 mm required between a pin and a socket-contact when another pin(s) is(are) in contact with the metal covers or cover plates (mm) .....	See Attachment	*
10.4	External parts of plugs made of insulating material		N/A
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.5	Shuttered socket-outlets: live parts not accessible, without a plug in engagement, with the gauges shown in figure 9 and 10		P
	Live contacts automatically screened when the plug is withdrawn		P
	Shutters so designed that a plug is inserted with the same movement in a socket outlet with shutters as in a socket-outlet without shutters		P
	Means cannot easily be operated by anything other than a plug and not depend upon parts which are liable to be lost		P
	Gauge of figure 9, applied to the entry holes corresponding to live contacts with a force of 20 N, for approximately 5 s, successively in three directions, does not touch live parts		P
	Steel gauge of figure 10, applied to the entry holes corresponding to live contacts with a force of 1 N for approximately 5 s, in three directions, does not touch live parts		P
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		P
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		P
	Test plug inserted into the socket-outlet with a force of 150 N for 1 min		
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		P
	After this test: socket-outlet still comply with the requirements of clause 9		P
10.7	Socket-outlet with or without lid with increased protection: live parts not accessible		P
	Test wire of 1 mm diameter (figure 10) applied with a force of 1 N on all accessible surfaces does not touch live parts		P
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		P
	Socket-outlet tested without a plug inserted with the lid, if any, open		P
<b>11</b>	<b>PROVISION FOR EARTHING</b>		
11.1	Earth connection made before the current-carrying contacts of the plug become live		P
	Current-carrying pins are separated before the earth connection is broken		P

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Clause	Requirement + Test	Result - Remark	Verdict
11.2	Earthing terminals of rewirable accessories comply with clause 12		P
	Earthing terminals of the same size as the corresponding terminals for the supply conductors		P
	Earthing terminals of rewirable accessories: internal		P
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		P
	Earthing contacts of fixed socket-outlets:		
	- fixed to the base, or		P
	- fixed to the cover (reliably connected to the earthing terminals; contact pieces silver plated or with adequate protection)		N/A
	Parts of earthing circuit in one piece or reliably connected by riveting, welding, or the like		P
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N/A
11.4	Socket-outlets, having an IP>X0, with enclosure of insulating material and more than one cable inlet, provided with:		
	- an internal fixed earthing terminal, or		N/A
	- adequate space for a floating terminal (test connection using the type of terminal specified by the manufacturer), unless		N/A
	- earthing terminal of socket-outlet itself allows the connection of an incoming and an outgoing earthing conductor		N/A
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		N/A
	Test current equal to 1,5 times the rated current or 25 A (A) .....: --		—
	Resistance not exceed 0,05 $\Omega$ ( $\Omega$ ) .....: --		N/A
11.6	Fixed socket-outlets according to item b) of 7.2.5: earthing socket contact and its terminal electrically separated from any metal mounting means or other exposed conductive parts which may be connected to the protective earthing circuit of the installation		N/A
<b>12</b>	<b>TERMINALS AND TERMINATIONS</b>		
	All the test on terminals, with the exception of the tests of 12.3 11 and 12.3.12, made after the test of clause 16		P
<b>12.1</b>	<b>General</b>		

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Clause	Requirement + Test	Result - Remark	Verdict
12.1.1	Rewirable fixed socket-outlets provided with screw-type terminals or with screwless terminals .....	screw-type terminals	P
	Rewirable plugs and portable socket-outlets provided with terminals with screw clamping .....	--	N/A
	Pre-soldered flexible conductors used: pre-soldered area outside the clamp area of screw-type terminals		N/A
	Clamping means of terminals: not serve to fix any other components		P
12.1.2	Non-rewirable accessories provided with soldered, welded, crimped or equally effective permanent connections (termination) .....	--	N/A
	Screwed or Snap-On connections not used		N/A
	Connections made by crimping a pre-soldered flexible conductor not permitted		N/A
<b>12.2</b>	<b>Terminals with screw clamping for external copper conductors</b>		
12.2.1	Accessories provided with terminals which allows the proper connection of copper conductors as shows in table 3		P
	Rated current (A); Type of accessories .....	16 A; fixed socket-outlets	—
	Type of conductor (rigid / flexible) .....	rigid / flexible	—
	Smallest / largest cross-sectional area (mm <sup>2</sup> ) .....	1,5 mm <sup>2</sup> / 2x2,5 mm <sup>2</sup>	—
	Diameter of the largest conductor (mm) .....	2,13 (rigid / flexible)	—
	Figure of terminal .....	fig. 3b	—
	Minimum diameter D (minimum dimensions) of conductor space: required (mm); measured (mm) .:	D min. required: 2,0 mm D measured: 3,6 mm	P
12.2.2	Terminals allow the conductor to be connected without special preparation		P
12.2.3	Terminals have adequate mechanical strength		P
	Screws and nut for clamping the conductors have metric ISO thread or a comparable thread		P
	Screws not of soft metal such as zinc or aluminium		P
12.2.4	Terminals resistant to corrosion		P
12.2.5	Terminals clamp the conductor(s) without undue damage	See appended table 12.2.5	P
	During the test: conductor not slip out, no break near clamping unit and no damage		P
12.2.6	Terminals clamp the conductor reliably between metal surfaces	See appended table 12.2.6	P
	During the test: conductor not move noticeably		P

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Clause	Requirement + Test	Result - Remark	Verdict
12.2.7	Terminals designed or placed that the conductor cannot slip out while the clamping screws or nuts are tightened	See appended table 12.2.7	P
	After the test: no wire of the conductor escaped from the clamping unit		P
12.2.8	Terminals not work loose from their fixing to accessories		P
	Torque test (screws and nuts tightened and loosened 5 times):		
	- rated current (A) .....	16 A	—
	- copper conductor of the largest cross-sectional area (mm <sup>2</sup> ) (table 3) .....	2,5 mm <sup>2</sup>	—
	- type of conductor (solid or stranded) .....	Rigid solid	—
	- torque (Nm) (table 6 or appropriate figures 2, 3 or 4) .....	0,8 Nm	—
	During the test: terminals not work loose and show no damage		P
12.2.9	Clamping screws or nuts of earthing terminals: adequately locked against accidental loosening, not possible to loosen them without the aid of a tool		P
12.2.10	Earthing terminals: no risk of corrosion		P
	Body of brass or other metal no less resistant to corrosion		P
	The body is a part of a frame or enclosure of aluminium alloy: precautions are taken to avoid the risk of corrosion		N/A
12.2.11	Pillar terminals: distance <i>g</i> no less than the value specified in figure 2: required (mm); measured (mm) .....	--	N/A
	Mantle terminals: distance <i>g</i> no less than the value specified in figure 5: required (mm); measured (mm) .....	--	N/A
<b>12.3</b>	<b>Screwless terminals for external copper conductors</b>		N/A
<b>13</b>	<b>CONSTRUCTION OF FIXED SOCKET-OUTLETS</b>		
13.1	Socket-contact assembly have sufficient resilience to ensure adequate contact pressure on plug pins		P
	Part of socket-contact assembly ensure metallic opposing contacts at least on two sides of each pins		P
13.2	Socket-contact and pin(s) of socket-outlet which are made of copper or copper alloy, as specified in 26.5, are considered as complying with this requirement		P

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Clause	Requirement + Test	Result - Remark	Verdict
	The pin(s) of socket-outlets so constructed in such a way that the mechanical strength of the pin(s) does not depend on the plastic material		N/A
	Compliance is checked by inspection and in case of doubt by the tests of 14.2 and Clause 21 on a new set of specimens without plastic		P
13.3	Insulating linings, barriers and the like: adequate mechanical strength		P
13.4	Socket-outlets constructed as to permit		
	- easy introduction into the terminal and reliable connection of the conductors in the terminals, except for lead wires of pilot lights		P
	- easy fixing of the main part to a wall or in a mounting box		P
	- correct positioning of the conductors		P
	- adequate space between the underside of the main part and the surface on which the main part is mounted;		P
	- adequate space between the sides of the main part and the enclosure (cover or box);		P
	Socket-outlets having screwless terminals, constructed that the connecting and/or disconnecting means of the screwless terminals cannot be activated by the conductors during and after installation		N/A
	Compliance is checked by inspection and in case of doubt by the following test		N/A
	The test is carried out with a solid copper conductor having the smallest cross-sectional area, as specified in 12.3.2. (mm <sup>2</sup> ).....: --		N/A
	If it is not possible to exert a force onto the connecting/disconnecting device, the product is deemed to comply with the requirements without further tests.		N/A
	During the application of the pull, the conductor do not come out of the screwless terminal		N/A
	In addition socket-outlets classified as design A: permit easy positioning and removal of the cover or cover plate, without displacing the conductors or activating the connecting and/or disconnecting means of screwless terminals.		P
	Compliance is checked by inspection and by an installation test with conductors of the largest nominal cross-sectional area specified in Table 3 (mm <sup>2</sup> ):	2x2,5 mm <sup>2</sup>	P

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Clause	Requirement + Test	Result - Remark	Verdict
13.5	Socket-outlets designed that full engagement of associated plugs is not prevented by any projection from their engagement face		P
	Gap between the engagement face of the socket-outlet and the plug: not exceed 1 mm		P
13.6	Covers provided with bushings for the entry holes for the pins: not possible to remove them from the outside or for them to become detached inadvertently from the inside when the cover is removed		N/A
13.7	Covers, cover-plates or parts of them intended to ensure protection against electric shock:		
	- held in place at two or more points by effective fixings		P
	- fixed by means of a single fixing, for example, by a screw, provided that they are located by another means (for example, by a shoulder)		N/A
	Fixings of covers or cover-plates of socket-outlets of design A serve to fix the main parts: there are means to maintain the base in position, even after removal of the covers or cover-plates		N/A
13.7.1	Covers or cover-plates whose fixings are of the screw-type:		
	Compliance checked by inspection only		N/A
13.7.2	Covers or cover-plates whose fixing is not dependent on screws and whose removal is obtained by applying a force in a direction approximately perpendicular to the mounting/supporting surface:		
	Compliance checked, when their removal may give access, with the standard test finger:		
	to live parts: by the test of 24.14 (verification of the non-removal and the removal)		N/A
	to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal and the removal)		N/A
	only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal and the removal)		N/A
13.7.3	Covers or cover-plates the fixing of which is not dependent on screws and whose removal is obtained by using a tool, in accordance with the manufacturer's instructions given in an instruction sheet or in other documentation:		

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Clause	Requirement + Test	Result - Remark	Verdict
	Compliance checked, when their removal may give access, with the standard test finger:		
	to live parts: by the test of 24.14 (verification of the non-removal only)		N/A
	to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal only)		N/A
	only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal only)		N/A
13.8	Cover-plate intended for a socket-outlet with earthing contact: not interchangeable with a cover-plate intended for a socket-outlet without earthing contact		N/A
13.9	Surface-type socket-outlets: no free openings in their enclosures		N/A
13.10	Screws or other means for mounting the socket-outlet on a surface in a box or enclosure: easily accessible from the front	Supporting frame	P
	Fixing means not serve any other fixing purpose		P
13.11	Multiple socket-outlets with a common base: provided with fixed links for the interconnection of the contacts in parallel		P
	Fixing of the links independent from the connection of the supply wires		P
13.12	Multiple socket-outlets, comprising separate bases: correct position of each base ensured		N/A
	Fixing of each base independent of the fixing of the combination to the mounting surface		N/A
13.13	Mounting plate of surface-type socket-outlets: adequate mechanical strength		N/A
13.14	Socket-outlets withstand the lateral strain imposed by equipment likely to be introduced into them		P
	Socket-outlets 16A 250V: test made 4 times with the socket-outlet turned through 90°, 5 N for 1 min (device shown in fig. 13)		P
	During the test: device not become disengaged from the socket-outlet		P
	After the test:		P



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Clause	Requirement + Test	Result - Remark	Verdict
	- no damage		P
	- socket-outlets comply with clause 22		P
13.15	Socket-outlets are not an integral part of lampholders		P
13.16	Surface-type socket-outlets having IP>20 are according to their IP classification when fitted with conduits or with sheathed cables and without a plug in engagement		N/A
	Surface-type socket-outlets having IPX4 and IPX6 have provision for opening a drain hole		N/A
	Socket-outlets with a drain hole: drain hole is not less than 5 mm in diameter, or 20 mm <sup>2</sup> in area with a width and a length of not less than 3 mm .....	--	N/A
	Drain hole: effective		N/A
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel) .....	--	N/A
13.17	Earthing pins: adequate mechanical strength		N/A
	Not solid pins: compliance checked by inspection and by the test of 14.2 made after the tests of clause 21		N/A
13.18	Earthing contacts, phase contacts and neutral contacts:		
	- locked against rotation;		P
	- when the product is ready for the wiring do not possible to be removed without the use of a tool		P
13.19	Metal strips of the earthing circuit: no burrs which might damage the insulation of the supply conductors		N/A
13.20	Socket-outlets to be installed in a box: designed that the conductor ends can be prepared after the box is mounted in position, but before the socket-outlet is fitted in the box		P
13.21	Inlet openings: allow the introduction of the conduit or the sheath of the cable		N/A
	Surface-type socket-outlets:		
	the conduit or sheath of the cable can enter at least 1 mm into the enclosure		N/A
	inlet opening for conduit entries, or at least two of them if there are more than one, capable of accepting conduit sizes of 16, 20, 25 or 32 according to IEC 60423 or a combination of at least two of any of these sizes		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	inlet opening for cable entries capable of accepting cables having the dimensions specified in table 14 or be as specified by the manufacturer: rated current (A); Limits of external dimensions of cable min/max (mm) .....: --		N/A
13.22	Membranes (grommets) in inlet openings: reliably fixed and not displaced by the mechanical and thermal stresses occurring in normal use		N/A
	Test on membranes subjected to the ageing treatment specified in 16.1 and assembled in the accessories		
	Accessories placed at $(40 \pm 2) ^\circ\text{C}$ for 2 h. Force of 30 N applied for 5 s by test probe 11 of IEC 61032. During the test: no deformation		N/A
	Membranes likely to be subjected to an axial pull: axial pull of 30 N applied for 5 s. During the test: membranes not become detached		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
	Test repeated with membranes not subjected to any treatment		N/A
13.23	Membranes in inlet openings: introduction of the cables into the accessory permitted when the ambient temperature is low		N/A
	Test on membranes not subjected to the ageing treatment specified in 16.1 and assembled in the accessories		
	Accessories kept at $(-15 \pm 2) ^\circ\text{C}$ for 2 h: possibility to introduce cables of the largest diameter through membranes		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
<b>14</b>	<b>CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OUTLETS</b>		N/A
<b>15</b>	<b>INTERLOCKED SOCKET-OUTLETS</b>		N/A
<b>16</b>	<b>RESISTANCE TO AGEING, PROTECTION PROVIDED BY ENCLOSURES, AND RESISTANCE TO HUMIDITY</b>		
<b>16.1</b>	<b>Resistance to ageing</b>		
	Accessories are resistant to ageing		P
	For accessories having a lid, the lid is closed during the test		N/A
	Portable socket-outlets: the plug of the same system having the same rated current as the socket-outlet inserted into the socket-outlet during the test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Accessories subjected to a test in a heating cabinet at $(70 \pm 2)$ °C for seven days (168 h)		P
	After the tests, the specimens show:		
	- no crack visible with normal or corrected vision without additional magnification		P
	- no sticky or greasy material		P
	- no trace of cloth (forefinger pressed with 5 N)		P
	- no damage		P
	Portable socket-outlets: contact pressure of the contact assembly checked as specified in subclause 22.2 with the single-pin gauge		N/A
<b>16.2</b>	<b>Protection provided by enclosures</b>		
	Enclosures provide a degree of protection in accordance with the IP designation of the accessory	IP20	P
<b>16.2.1</b>	<b>Protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects</b>		
	Accessories and their enclosures provide a degree of protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		P
	Fixed socket-outlets: mounted as in normal use on a vertical surface		P
	Flush-type and semi-flush type socket-outlets: mounted in an appropriate box according to the manufacturer's instructions		P
	Accessories with screwed glands or membranes fitted with flexible cables within the range specified in table 3:		
	- largest cross-sectional area (mm <sup>2</sup> ); type of cable (table 17) .....	--	—
	- smallest cross-sectional area (mm <sup>2</sup> ); type of cable (table 17) .....	--	—
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 24.6 (Nm) .....	--	—
	Screws of the enclosure tightened with a torque equal to 2/3 of the torque given in table 6 (Nm) ...:	--	—
<b>16.2.1.1</b>	<b>Protection against access to hazardous parts</b>		
	Appropriate test performed as specified in IEC 60529 (see also clause 10)		P
<b>16.2.1.2</b>	<b>Protection against harmful effects due to ingress of solid foreign objects</b>		

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Clause	Requirement + Test	Result - Remark	Verdict
	Appropriate test performed as specified in IEC 60529		P
	Test on accessories with IP5X (considered to be of category 2): dust not penetrated in a quantity to interfere with satisfactory operation or to impair safety		N/A
	Test on accessories with IP6X (considered to be of category 1): dust do not penetrate		N/A
<b>16.2.2</b>	<b>Protection against harmful effects due to ingress of water</b>		N/A
<b>16.3</b>	<b>Resistance to humidity</b>		
	Accessories proof against humidity which may occur in normal use		P
	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %		P
	Specimens kept in the cabinet for:		
	- two days (48 h) for accessories having IPX0		P
	- seven days (168 h) for accessories having IP>X0		N/A
	After this treatment the specimens show no damage		P
<b>17</b>	<b>INSULATION RESISTANCE AND ELECTRIC STRENGTH</b>		
17.1	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 17.1	P
17.2	Electric strength: a.c. test voltage applied for 1 min	See appended table 17.2	P
<b>18</b>	<b>OPERATION OF EARTHING CONTACTS</b>		*
	Earthing contacts provide adequate contact pressure and not deteriorate in normal use		P
	Compliance checked by the tests of clauses 19 and 21		P
<b>19</b>	<b>TEMPERATURE RISE</b>		*
	Accessories constructed that they comply with the following temperature rise test		
	Non-rewirable accessories are tested as delivered		N/A
	In the case of multiple socket-outlets, the test is carried out on one socket-outlet of each type and current rating with the test current as specified in Table 20 passed through that one socket-outlet		N/A
	The temperature rise of the terminals, terminations and clamping units according to Figure 44 determined by means of thermocouples do not exceed 45 K	See Attachment	P

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Clause	Requirement + Test	Result - Remark	Verdict
19.1	Socket-outlets and plugs are tested as follows:		
	Socket-outlets tested using a test plug with brass pins having the minimum specified dimensions	See Attachment	P
	For this test the temperature rise is measured on the terminals and terminations.		P
	Plugs tested with clamping units having dimensions specified in Figure 44 fitted on each live pin and earthing pin, if any		N/A
	Plugs having lateral earthing contacts and resilient earthing contacts tested using a fixed socket-outlet complying with the standard and having as near to-average characteristics as can be selected, but with minimum size of the earthing pin, if any		N/A
19.2	Fixed socket-outlets of a socket-outlet and fused plug system are tested as follows:		N/A
19.3	Portable socket-outlets and rewirable plugs with incorporated components are tested by the following two tests:		N/A
<b>20</b>	<b>BREAKING CAPACITY</b>		*
	Accessories have adequate breaking capacity		P
	Compliance checked by testing:		
	- socket-outlets;	See Attachment	P
	- plugs with pins which are not solid		N/A
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		N/A
	During the test: no sustained arcing occurs		P
	After the test:		
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P
<b>21</b>	<b>NORMAL OPERATION</b>		*
	Accessories withstand without excessive wear or other harmful effect, the mechanical, electrical and thermal stresses occurring in normal use		P
	Compliance checked by testing:		
	- socket-outlets;	See Attachment	P
	- plugs with resilient earthing socket-contacts;		N/A
	- plugs with pins which are not solid		N/A
	Test performed according to the procedure specified in Figure 43; point of Figure 43 at which the test program has begun (1, 2, 3) .....	point 2	—

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Clause	Requirement + Test	Result - Remark	Verdict
	Test current passed:		
	- during each insertion and withdrawal of the plug ( $I_n \leq 16A$ )		P
	- during alternate insertion and withdrawal, the other insertion and withdrawal being made without current flowing ( $I_n > 16A$ )		N/A
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		N/A
	During the test: no sustained arcing occur		P
	After the test the specimens do not show:		
	- wear impairing their further use;		P
	- deterioration of enclosures, insulating lining or barriers;		P
	- damage to the entry holes for the pins, that might impair proper working;		P
	- loosening of electrical or mechanical connections;		P
	- seepage of sealing compound		N/A
	Shuttered socket-outlets: gauges of figure 9 and 10 applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces	See Attachment	P
	Temperature-rise test (requirements of clause 19)	See Attachment	P
	Electric strength (sub-clause 17.2)	See Attachment	P
	Pins which are not solid: test according to 14.2		N/A
<b>22</b>	<b>FORCE NECESSARY TO WITHDRAW THE PLUG</b>		*
	Construction of accessory does allow the easy insertion and withdrawal of the plug, and prevent the plug from working out of the socket-outlet in normal use		P
<b>22.1</b>	<b>Verification of the maximum withdrawal force</b>	See Attachment	P
<b>22.2</b>	<b>Verification of the minimum withdrawal force</b>	See Attachment	P
<b>23</b>	<b>FLEXIBLE CABLES AND THEIR CONNECTIONS</b>		N/A
<b>24</b>	<b>MECHANICAL STRENGTH</b>		
	Accessories, surface mounting boxes, screwed glands and shrouds have adequate mechanical strength		P
<b>24.1</b>	Fixed socket-outlets, portable multiple socket-outlets and surface-type mounting boxes: hammer test described in IEC 60068-2-75 (test EHA), equivalent mass of 250 g		P

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Clause	Requirement + Test	Result - Remark	Verdict
	After the test: no damage, live parts no become accessible		P
24.2	Portable single socket-outlets and plugs: subjected to test Ec: Rough handling shocks, primarily for equipment-type specimens, procedure 2 of IEC 60068-2-31 (tumbling barrel); number of falls.....: --		N/A
	After the test:		
	- no part become detached or loosened;		N/A
	- pins no become so deformed that the plug cannot be introduced into a socket-outlet and also fails to comply with the requirements of 9.1 and 10.3;		N/A
	- pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction		N/A
	The shutters of socket-outlets tested again according to Clause 21, from paragraph 19 up to paragraph 24 (only the tests of shutters)		N/A
24.3	Main parts of surface-type socket-outlets: first fixed to a cylinder of rigid steel sheet and then fixed to a flat steel sheet		
	During and after the tests: no damage		N/A
24.4	Portable single socket-outlets, multiple socket-outlets and plugs (elastomeric or thermoplastic material): impact test, weight (1000 ± 2) g, height 100 mm (apparatus shown in fig. 27)		
	Specimens placed in a freezer at (-15 °C ± 2) °C for at least 16 h. After the test: no damage		N/A
24.5	Portable single socket-outlets and plugs (elastomeric or thermoplastic material): compression test, 300 N for 1 min, position a) and b) (apparatus shown in fig. 8)		
	After the test: no damage		N/A
24.6	Screwed glands of accessories having IP>20: torque test (1 min)		
	- diameter of test rod (mm) .....: --		—
	- type of material (metal / moulded) .....: --		—
	- torque (Nm) .....: --		—
	After the test: no damage of glands and enclosures of the specimens		N/A
24.7	Plug pins provided with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 28)		
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		N/A
24.8	Shuttered socket-outlets: mechanical test carried out on specimens submitted to the normal operation test according to clause 21		
	Force (40 N / 75 N) applied for 1 min against the shutter of an entry hole by means of one pin (N) :	40 N (P40) / 75 N (P11)	—

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Clause	Requirement + Test	Result - Remark	Verdict
	Pin did not come in contact with live parts		P
	After the test: no damage		P
24.9	Mechanical test for multiple portable socket-outlet: 8 falls on concrete floor with the specimens arranged as shown in figure 29		
	Rewirable multiple socket-outlets: flexible cable of the smallest cross-sectional area specified in table 3 .....	--	—
	After the test: no damage, no part have become detached or loosened		N/A
	Accessories having IP>X0 submitted again to the tests as specified in 16.2		N/A
	The shutters of multiple socket-outlets tested again according to Clause 21, from paragraph 19 up to paragraph 24 (only the tests of shutters)		N/A
24.10	Plugs: pull test to verify the fixation of pins in the body of the plug (new specimens)		
	Maximum withdrawal force (table 16) applied for 1 min on each pin in turn, after the specimen has been placed at $(70 \pm 2) ^\circ\text{C}$ for 1 h (N) .....	--	—
	After the test: displacement of pins in the body of the plug $\leq 1$ mm (mm) .....	--	N/A
24.11	Barriers of portable socket-outlets having means for suspension on a mounting surface:		
	Force applied for 10 s against the barrier by means of a cylindrical steel rod (1,5 times the maximum plug withdrawal force in 22.1, table 16) (N) .....	--	—
	Rod did not pierce the barrier		N/A
24.12	Portable socket-outlets having means for suspension on a mounting surface (pull test):		
	Pull applied to the supply flexible cable for 10 s (force prescribed in 23.2 for checking the flexible cable anchorage) (N) .....	--	—
	During the test: no break of the means for suspension on a mounting surface		N/A
24.13	Portable socket-outlets having means for suspension on a mounting surface (pull test):		
	Pull applied to the engagement face of the socket-outlet for 10 s (maximum withdrawal force specified, for the corresponding plug, in table 16) (N) .....	--	—
	During the test: no break of the means for suspension on a mounting surface		N/A
24.14	Forces necessary to retain or remove covers, cover-plates or parts of them (accessibility with the test finger to live parts)		



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Clause	Requirement + Test	Result - Remark	Verdict
24.14.1	Verification of the retention of covers or cover-plates (fixed socket-outlets)		
	Force (40 N / 80 N) applied for 1 min perpendicular to the mounting surface (N) .....: --		—
	Covers or cover-plates did not come off		N/A
	Test repeated on new specimens with a sheet of hard material, (1 ± 0,1) mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates did not come off		N/A
	After the test: no damage		N/A
24.14.2	Verification of the removal of covers or cover-plates (fixed socket-outlets)		
	Force not exceeding 120 N applied 10 times perpendicular to the mounting / supporting surface: covers or cover-plates came off		N/A
	Test repeated on new specimens with a sheet of hard material, (1 ± 0,1) mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates came off		N/A
	After the test: no damage		N/A
24.14.3	Verification of the retention of covers or cover-plates (plugs and portable socket-outlets)		
	Force 80 N applied for 1 min perpendicular to the mounting surface: covers, cover-plates or parts of them did not come off		N/A
	Test repeated with a force of 120 N:		
	Rewirable plugs and rewirable portable socket-outlets: covers, cover-plates or parts of them came off but the specimen showed no damage		N/A
	Non-rewirable, non-moulded-on accessories: covers, cover-plates or parts of them came off but the accessories were permanently useless according to 14.1		N/A
24.15	Force necessary for covers or cover-plates to come off or not to come off (accessibility with the test finger to non-earthed metal parts separated from live parts by creepage distances and clearances according to table 23)		
24.14.1	Verification of the non-removal of covers or cover-plates		
	Force (10 N / 20 N) applied for 1 min in direction perpendicular to the mounting surface (N) .....: --		—
	Covers or cover-plates did not come off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates did not come off		N/A
	After the test: no damage		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
24.14.2	Verification of the removal of covers or cover-plates		
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates came off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm $\pm$ 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates came off		N/A
	After the test: no damage		N/A
24.16	Force necessary for covers or cover-plates to come off or not to come off (accessibility to insulating parts, earthed metal parts, live parts of SELV $\leq$ 25 V a.c. or metal parts separated from live parts by creepage distances twice those according to table 23)		
24.14.1	Verification of the non-removal of covers or cover-plates		
	Force 10 N applied for 1 min in direction perpendicular to the mounting surface: covers or cover-plates did not come off		P
	Test repeated on new specimens with a sheet of hard material, 1 mm $\pm$ 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates did not come off		P
	After the test: no damage		P
24.14.2	Verification of the removal of covers or cover-plates		
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates came off		P
	Test repeated on new specimens with a sheet of hard material, 1 mm $\pm$ 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates came off		P
	After the test: no damage		P
24.17	Test with gauge of figure 7 applied according to figure 9 for verification of the outline of covers or cover-plates: distances between face C of gauge and outline of side under test, not decrease .....	complying / not complying	—
24.18	Test with gauge according to figure 5 applied as shown in figure 11 (1 N): gauge not enter more than 1mm .....	complying / not complying	—
24.19	Shroud of portable socket-outlets: compression test (20 $\pm$ 2) N at (25 $\pm$ 5) °C by means of the apparatus shown in figure 38		
	After 1 min and while the shrouds are still under pressure the dimensions did comply with the appropriate standard sheet		N/A
	Test repeated with the specimen rotated 90 °		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

<b>25</b>	<b>RESISTANCE TO HEAT</b>		
25.1	Specimens kept for 1 h in a heating cabinet at $(100 \pm 2) ^\circ\text{C}$ for 1 h		
	During the test: no change impairing their further use and sealing compound, if any, not flow		P
	After the test:		
	- no access to live parts with probe B of IEC 61032 applied with a force not exceeding 5 N		P
	- markings still legible		P
25.2	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone, 2 mm wide, surrounding the phase and neutral pin entry holes: ball-pressure test at $(125 \pm 2) ^\circ\text{C}$ for 1 h	See appended table 25.2	P
25.3	Parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)		N/A
25.4	Portable accessories: compression test (20 N) at $(80 \pm 2) ^\circ\text{C}$ for 1 h by means of the apparatus shown in figure 38		
	After the test: no damage		N/A
<b>26</b>	<b>SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS</b>		
26.1	Connections withstand mechanical stresses		P
	Thread-forming or thread-cutting screws used only if supplied together with the piece in which they are intended to be inserted		N/A
	Thread-cutting screws intended to be used during installation: captive		N/A
	Screws or nuts which transmit contact pressure made of metal and in engagement with a metal thread		P
	Threaded part torque test	See appended table 26.1	P
26.2	Screws in engagement with a thread of insulating material: correct introduction into the screw hole or nut ensured		P
26.3	Contact pressure: not transmitted through insulating material other than ceramic, pure mica or other material no less suitable unless there is sufficient resiliency in metallic parts		P
	Connections made by insulation piercing of tinsel cord reliable		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
26.4	Screws and rivets locked against loosening and/or turning		N/A
26.5	Current-carrying parts (including earthing terminals) have mechanical strength, electrical conductivity and resistance to corrosion adequate:		
	- copper;		N/A
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;		P
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N/A
	- steel with electroplated coating of zinc (ISO 2081): service condition ISO no. (1/2/3); IP (X0/X4/X5); thickness (µm) .....: --		N/A
	- steel with electroplated coating of nickel and chromium (ISO 1456): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm) .....: --		N/A
	- steel with electroplated coating of tin (ISO 2093): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm) .....: --		N/A
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		P
	Metals having a great difference of electrochemical potential: not used in contact with each other		N/A
26.6	Contacts subjected to a sliding action are of metal resistant to corrosion		P
26.7	Thread-forming screws and thread-cutting screws are not used for the connection of current-carrying parts		N/A
	Thread-forming screws and thread-cutting screws used to provide earthing connection: it is not necessary to disturb the connection and at least two screws are used for each connection		N/A
<b>27</b>	<b>CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND</b>		
27.1	Creepage distances, clearances and distances through sealing compound are not less than the values shown in table 23	See appended table 27.1	P
27.2	Insulating sealing compound does not protrude above the edge of the cavity in which it is contained		N/A
27.3	Surface-type socket-outlets do not have bare current-carrying strips at the back		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
<b>28</b>	<b>RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING</b>		
<b>28.1</b>	<b>Resistance to abnormal heat and to fire</b>		
<b>28.1.1</b>	<b>Glow-wire test according to IEC 60695-2-10 and IEC 60695-2-11</b>	See appended table 28.1.1	P
<b>28.1.2</b>	Plugs with pins provided with insulating sleeves:		
	Test temperature maintained for 3 h by means of the apparatus shown in figure 40 at $(120 \pm 5) ^\circ\text{C}$ / $(180 \pm 5) ^\circ\text{C}$ .....	--	—
	Impact test according to sub-clause 30.4 (mass 100 g, height 100 mm, 4 impacts): no cracks of the insulating sleeves		N/A
<b>28.2</b>	<b>Resistance to tracking</b>		
	Parts of insulating material retaining live parts in position of accessories having IP>X0: of material resistant to tracking		N/A
	Tracking test at 175 V with solution A of IEC 60112		N/A
<b>29</b>	<b>RESISTANCE TO RUSTING</b>		
	Ferrous parts protected against rusting		P
	Test made after having removed all grease using a suitable degreasing agent: 10 min 10 % solution of ammonium chloride, 10 min in a box with air saturated with moisture and 10 min at $(100 \pm 5) ^\circ\text{C}$ :		
	No signs of rust		P
<b>30</b>	<b>ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES</b>		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>12.2.5</b>	<b>TABLE: test with apparatus shown in figure 11 (screw-type terminals)</b>			<b>P</b>
	rated current (A) .....	16 A		—
	type of conductors .....	Rigid		—
	smallest/largest cross-sectional area per table 3 (mm <sup>2</sup> ) .....	1,5 / 2,5 mm <sup>2</sup>		—
	number of conductors .....	1-2x1,5 mm <sup>2</sup> ; 1-2x 2,5 mm <sup>2</sup>		—
	nominal diameter of thread (mm); torque per table 6 (Nm) .....	3,4 mm; 0,8 Nm		—
Cross-sectional area (mm <sup>2</sup> )	Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Remarks
1,5 mm <sup>2</sup>	6,5 mm	260 mm	0,4 kg	P
2,5 mm <sup>2</sup>	9,5 mm	280 mm	0,7 kg	P

<b>12.2.6</b>	<b>TABLE: pull test (screw-type terminals)</b>			<b>P</b>
	rated current (A) .....	16 A		—
	smallest/largest cross-sectional area per table 3 (mm <sup>2</sup> ) .....	1,5 / 2,5 mm <sup>2</sup>		—
	nominal diameter of thread (mm); torque 2/3 per table 6 (Nm) .....	3,4 mm; 0,53 Nm		—
Cross-sectional area (mm <sup>2</sup> )	Number of conductors <sup>(1)</sup>	Type of conductors (rigid solid / rigid stranded / flexible)	Pull per table 4 applied for 1 min (N)	Remarks
1,5 mm <sup>2</sup>	1-2	(rigid solid / rigid stranded / flexible)	40 N	P
2,5 mm <sup>2</sup>	1-2	(rigid solid / rigid stranded / flexible)	50 N	P
supplementary information: <sup>(1)</sup> terminals intended for looping-in 2 conductors. The corresponding traction has been applied successively to each of the conductors				

<b>12.2.7</b>	<b>TABLE: tightening test (screw-type terminals)</b>			<b>P</b>
	rated current (A) .....	16 A		—
	nominal diameter of thread (mm); torque 2/3 per table 6 (Nm) .....	3,4 mm; 0,53 Nm		—
Largest cross-sectional area per table 3 (mm <sup>2</sup> )	Permissible number of conductors <sup>(1)</sup>	Type of conductors (rigid solid / rigid stranded / flexible)	Number of wires and nominal diameter of wires per table 5	Remarks
2,5 mm <sup>2</sup>	2	rigid solid	1x1,78 mm	P
2,5 mm <sup>2</sup>	2	rigid stranded	7x0,67 mm	P
2,5 mm <sup>2</sup>	2	flexible	50x0,25 mm	P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

supplementary information:

<sup>(1)</sup> terminals intended for looping-in 2 or 3 conductors

<b>12.3.10</b>	<b>TABLE: mechanical strength test (screwless-type terminals)</b>	<b>N/A</b>
<b>12.3.11</b>	<b>TABLE: electrical and thermal strength test (screwless-type terminals)</b>	<b>N/A</b>
<b>12.3.12</b>	<b>TABLE: deflection test (principle of test apparatus shown in figure 12a)</b>	<b>N/A</b>
<b>14.22</b>	<b>TABLE: Components</b>	<b>N/A</b>

17.1	TABLE: insulation resistance			P
Item per 17.1	test voltage applied between:	measured (MΩ)	required (MΩ)	
a)	all poles connected together and the body with a plug in engagement	> 6,5 MΩ	5 MΩ	
b)	each pole in turn and all others connected to the body with a plug in engagement	> 6,5 MΩ	5 MΩ	

17.2	TABLE: electric strength			P
	rated voltage (V) ..... :	250 V		—
item per 17.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)	
a)	all poles connected together and the body with a plug in engagement	2000	No	
b)	each pole in turn and all others connected to the body with a plug in engagement	2000	No	

<b>19.1</b>	<b>TABLE: temperature rise test for socket-outlets and plugs</b>	<b>*</b>
<b>19.2</b>	<b>TABLE: temperature rise test for fixed socket-outlets of a socket-outlet and fused plug system</b>	<b>N/A</b>
<b>19.3</b>	<b>TABLE: temperature rise test for plugs and portable socket-outlets with incorporated components</b>	<b>N/A</b>
<b>20</b>	<b>TABLE: breaking capacity</b>	<b>*</b>
<b>21</b>	<b>TABLE: normal operation</b>	<b>*</b>
<b>22</b>	<b>TABLE: force necessary to withdraw the plug</b>	<b>*</b>
<b>23.2</b>	<b>TABLE: pull and torque test</b>	<b>N/A</b>
<b>23.4</b>	<b>TABLE: flexing test</b>	<b>N/A</b>

Supplementary information: \* see the Attachment IT\_ND\_IEC60884\_1D\_II

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>24.1</b>	<b>TABLE: impact test</b>			<b>P</b>
part of enclosure tested per table 21 (A, B, C, D)	blows per part	height of fall (mm)	comments	
A	5	80	P	

<b>25.2</b>	<b>TABLE: ball pressure test of insulating materials</b>			<b>P</b>
	allowed impression diameter (mm) .....	≤ 2 mm	—	
part under test	test temperature (°C)		impression diameter (mm)	
Base	125		1,0	
Shutter base	125		1,3	
Shutter cover	125		1,2	
Frontal cover	125		1,1	

<b>25.3</b>	<b>TABLE: ball pressure test of insulating materials</b>			<b>N/A</b>
-------------	--	--	--	------------

<b>26.1</b>	<b>TABLE: threaded part torque test</b>					<b>P</b>
threaded part identification	diameter of thread (mm)	column number (1, 2 or 3)	applied torque (Nm)	times (5/10)	no damage	
terminal screws	3,4	2	0,8	5	P	

<b>27.1</b>	<b>TABLE: creepage distances, clearances and distances through sealing compound</b>						<b>P</b>
	rated voltage (V) .....	250 V					—
item per table 23	creepage distance dcr, clearance cl and distance through sealing compound dtsc at/of:	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	required dtsc (mm)	dtsc (mm)
1	between live parts of different polarity	≥ 3	> 4	≥ 3	> 4	--	--
2	between live parts and						
	- accessible surface of parts of insulating material	≥ 3	> 6	≥ 3	> 6	--	--
	- earthed metal parts including parts of earthing circuit	≥ 3	> 4	≥ 3	> 4	--	--



IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>28.1.1</b>	<b>TABLE: glow-wire test</b>					<b>P</b>
part under test	material designation	test temperature (°C)	visible flame and sustained glowing (Y/N)	flame and glowing extinction time (*)	ignition of the tissue paper (Y/N)	
Base	--	850	N	--	N	
Shutter base	--	650	N	--	N	
Shutter cover	--	650	N	--	N	
Frontal cover (white colour)	--	650	N	--	N	
Frontal cover (black colour)	--	650	N	--	N	
<b>28.2</b>	<b>TABLE: resistance to tracking</b>					<b>N/A</b>

**List of test equipment used:**

Clause	Testing / measuring equipment / material used (Equipment ID)	Range used	Last Calibration date	Calibration due date
9	Digital caliper, manufacturer MITUTOYO, IMQ ref. S08905	0÷150 mm	2022/07/25	2023/07/25
	Gauge C1 (CEI 23-50), manufacturer ICAM CALIBRI, IMQ ref. C00352		2022/12/20	2023/12/20
10	Test probe B (IEC 61032), manufacturer GALBUSERA, IMQ ref. C00341		2022/06/06	2023/06/06
	Test probe 11(IEC 61032), manufacturer PTL, IMQ ref. C01073	0÷75 N	2022/12/13	2023/12/13
	Stopwatch, manufacturer Quantum, mod. RS 235 5059, IMQ ref. S03414		2023/02/15	2024/02/15
	Gauge of figure 9 (CEI 23-50), manufacturer ATS di Galbusera, IMQ, ref. C01293	20 N	2022/05/03	2023/05/03
	Gauge of figure 10 (CEI 23-50), manufacturer ATS di Galbusera, IMQ ref. C01292	1 N	2022/05/03	2023/05/03
	Climatic chamber, manufacturer ACS ANGELANTONI, IMQ ref. P00795	Da 40 a 60 % RH; da 0 a 45°C	2022/08/04	2023/08/04
11	Digital caliper, manufacturer MITUTOYO, IMQ ref. S08905	0÷150 mm	2022/07/25	2023/07/25
12	Digital caliper, manufacturer MITUTOYO, IMQ ref. S08905	0÷150 mm	2022/07/25	2023/07/25
	Torque screwdriver, manufacturer Stahlwille, IMQ ref. S03439		2022/05/11	2023/05/11
	Stopwatch, manufacturer Quantum, mod. RS 235 5059, IMQ ref. S03414		2023/02/15	2024/02/15
13	Gauge of figure 13 (CEI 23-50), manufacturer I.C.&M., IMQ ref. C00969		2023/03/23	2024/03/23
	Gauge of figure 13 (CEI 23-50 ), manufacturer I.C.&M., IMQ ref. C00970		2023/03/23	2024/03/23
16	Heating cabinet, manufacturer MEMMERT, IMQ ref. P02026	+50÷200 °C	-	-
	Digital thermometer, manufacturer FLUKE IMQ ref S04652	-40 °C÷300 °C	2022/07/18	2023/07/18

**List of test equipment used:**

Clause	Testing / measuring equipment / material used (Equipment ID)	Range used	Last Calibration date	Calibration due date
	Thermocouple type T, manufacturer TERSID, IMQ ref. S09484/808	-70÷400 °C	2023/02/01	2024/02/01
	Test probe B (IEC 61032), manufacturer GALBUSERA, IMQ ref. C00341		2022/06/06	2023/06/06
	Thermohygrometer, manufacturer DELTAOHM, IMQ ref. S08153		2023/01/07	2024/01/07
17	Electric strength test and Mega-ohmmeter apparatus, IMQ ref. P02788		2022/05/18	2023/05/18
	Numerical multimeter, manufacturer FLUKE 183, IMQ reference S03423		2023/02/16	2024/02/16
	Stopwatch, manufacturer Quantum, mod. RS 235 5059, IMQ ref. S03414		2023/02/15	2024/02/15
19	Torque screwdriver, manufacturer Stahlwille, IMQ ref. S03439		2022/05/11	2023/05/11
	Digital caliper, manufacturer MITUTOYO, IMQ ref. S08905	0÷150 mm	2022/07/25	2023/07/25
	Thermocouple type T, manufacturer TERSID, IMQ ref. S09484/808 S09484/809	-70÷400 °C	2023/02/01	2024/02/01
	Current clamp, manufacturer HIOKI, IMQ ref. S06210	10 mA÷200 A	2022/07/06	2023/07/06
	Digital thermometer, manufacturer FLUKE IMQ ref S04652	-40 °C÷300 °C	2022/07/18	2023/07/18
20	Torque screwdriver, manufacturer Stahlwille, IMQ ref. S03439		2022/05/11	2023/05/11
	Current clamp, manufacturer HIOKI, IMQ ref. S06210	10 mA÷200 A	2022/07/06	2023/07/06
	Stabilized power source, manufacturer ELETTRATEST, IMQ ref. P02694	Mode of operation: single/three-phase - Vout: 300 V a.c. phase-neutral - f: 50 / 60 Hz - P: 10 kVA	2022/11/08	2023/11/08

**List of test equipment used:**

Clause	Testing / measuring equipment / material used (Equipment ID)	Range used	Last Calibration date	Calibration due date
21	Digital caliper, manufacturer MITUTOYO, IMQ ref. S08905	0÷150 mm	2022/07/25	2023/07/25
	Torque screwdriver, manufacturer Stahlwille, IMQ ref. S03439		2022/05/11	2023/05/11
	Electric strength test and Megaohmmeters apparatus, IMQ ref. P02788		2022/05/18	2023/05/18
	Stopwatch, manufacturer Quantum, mod. RS 235 5059, IMQ ref. S03414		2023/02/15	2024/02/15
	Gauge of figure 9 (CEI 23-50), manufacturer ATS di Galbusera, IMQ, ref. C01293	20 N	2022/05/03	2023/05/03
	Gauge of figure 10 (CEI 23-50), manufacturer ATS di Galbusera, IMQ ref. C01292	1 N	2022/05/03	2023/05/03
22	Caliper P17 Fig. 19 phase, manufacturer I.C.&M. IMQ ref. C00885		2022/12/13	2023/12/13
	Caliper P17 Fig. 19 earth, manufacturer I.C.&M. IMQ ref. C00886		2022/12/13	2023/12/13
	Caliper P11 Fig. 19 phase, manufacturer I.C.&M. IMQ ref. C01134		2022/06/07	2023/06/07
	Caliper P11 Fig. 19 earth, manufacturer I.C.&M. IMQ ref. C01135		2022/12/13	2023/12/13
	Caliper P30 Fig. 19 phase, manufacturer I.C.&M. IMQ ref. C01138		2022/06/07	2023/06/07
	Stopwatch, manufacturer Quantum, mod. RS 235 5059, IMQ ref. S03414		2023/02/15	2024/02/15
24	Impact test apparatus manufacturer GALBUSERA, IMQ ref. P02496		-	-
	Stopwatch, manufacturer Quantum, mod. RS 235 5059, IMQ ref. S03414		2023/02/15	2024/02/15
25	Monocle, manufacturer PEAK, IMQ ref. S06564	7 ÷ 13 mm	2022/08/04	2023/08/04

**List of test equipment used:**

	Test probe B (IEC 61032), manufacturer GALBUSERA, IMQ ref. C00341		2022/06/06	2023/06/06
	Heating cabinet, manufacturer MEMMERT, IMQ ref. P02026	+50÷200 °C	-	-
	Ball pressure test apparatus, manufacturer ATS di Galbusera, IMQ ref. P03761	20N 2,5 mm	2022/07/11	2023/07/11
	Numeral thermometer, manufacturer YOKOGAWA, IMQ ref. S02293	0 °C÷300 °C	2022/07/06	2023/07/06
	Thermocouple type T, manufacturer TERSID, IMQ ref. S09484/808	-70÷400 °C	2023/02/01	2024/02/01
26	Torque screwdriver, manufacturer Stahlwille, IMQ ref. S03439		2022/05/11	2023/05/11
27	Digital caliper, manufacturer MITUTOYO, IMQ ref. S08905	0÷150 mm	2022/07/25	2023/07/25
	Monocle, manufacturer PEAK, IMQ ref. S06564	7 ÷ 13 mm	2022/08/04	2023/08/04
28	Vernier caliper, manufacturer MITUTOYO, IMQ ref. S04320		2022/12/15	2023/12/15
	Glow-wire test apparatus, manufacturer ATS di Galbusera, IMQ ref. P01893	V:16,2mm/se cF: 1,1N, T 0,20 s	2023/01/23	2024/01/23
	Digital stopwatch, manufacturer RS, IMQ ref. S09111		2022/05/04	2023/05/04
	Hygrometric probe, manufacturer DELTAOHM, IMQ ref. S08153	Humidity 25- 30-55 °C 45% - 95% Temperature 0 a + 70 °C Temperature 0 a - 30 °C	2023/01/07	2024/01/07
	Thermocouple type K, manufacturer TERSID, IMQ ref. S09223	T: (550 ÷ 960) °C	2021/06/17	2024/06/17

**List of test equipment used:**

29	Thermohygrometer, manufacturer DELTAOHM, IMQ ref. S08153		2023/01/07	2024/01/07
	Heating cabinet, manufacturer MEMMERT, IMQ ref. P02026	+50÷200 °C	-	-
	Numeral thermometer, manufacturer YOKOGAWA, IMQ ref. S02293	0 °C÷300 °C	2022/07/06	2023/07/06
	Thermocouple type T, manufacturer TERSID, IMQ ref. S09484/808	-70÷400 °C	2023/02/01	2024/02/01

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60884-1 ITALIAN NATIONAL DIFFERENCES PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES PART 1: GENERAL REQUIREMENTS	
Differences according to.....	CEI 23-50:2007 + V1:2008 + V2:2011 + V3:2015 + V4:2015
Attachment Form No.....	IT_ND_IEC60884_1D_II
Attachment Originator .....	IMQ S.p.A.
Master Attachment .....	Date 2016-04
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	NATIONAL DIFFERENCES	
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7	CLASSIFICATION		
7.1.5	Add:		
	Accessories with screwless terminals for rigid conductors only are not allowed		N/A
7.2.1	Replace:		
	Socket-outlets: have increased protection		P
7.2.2	Replace:		
	Socket-outlets: provided with shutters		P
7.2.101	Add:		
	Type of possible receptivity .....	single / <b>multiple</b>	P
7.3	Add:		
	Class of appliance (class 0 not admitted) .....	I / II	N/A

8	MARKING		
8.3	Replace:		
	Cover plates necessary for safety purposes and intended to be sold separately: marked with the manufacturer's or responsible vendor's name; the type reference may be put on the smallest package unit		N/A

9	CHECKING OF DIMENSIONS		
9.1	Replace the first paragraph:		
	Accessories comply with the appropriate Italian standard sheets .....	<b>P40 (see Annex IT01-Part I)</b> <b>P11 (Italian Standard)</b>	P
	Add after the fourth paragraph:		

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	Plugs according to standard sheets S30, S31, S32: coupling with socket-outlet P30 checked by:		
	- gauge C7 (ex CEI UNEL 09321-64 B)		N/A
	- gauge C8 (ex CEI UNEL 09323-64 B)		N/A
	- gauge C10 (ex CEI UNEL 09336-64)		N/A
	Add after the last paragraph:		
	Socket-outlets according to standard sheets P10, P11, P17/11, P30: easy insertion and withdrawal of plugs complying with Standard CEI EN 50075		N/A
	Socket-outlets according to standard sheets P11, P17, P17/11 with rim or recess and socket-outlets according to standard sheet P30: simultaneous contact on live socket-contact by plug complying with standard sheet SPA11, SPB11, SPA17, SPB17 not possible; checked by:		
	- gauge A (standard sheet C2)		N/A
	- gauge B (standard sheet C2)		N/A
	Add:		
9.2.101	Multiple receptivity socket-outlets according to standard sheets P17/11: plugs complying to standard sheets S30, S31 and S32 do not make contact with live socket-contact; checked by:		
	Gauge according to standard sheets C12 applied to the pins entry holes with force of 150 N for 1 min; depth not greater than 3 mm (mm) .....: - mm		N/A
9.3	Add:		
	Accessories with variable configuration of part relevant to connection (for example distance and diameter of pins): not admitted		N/A
<b>10</b>	<b>PROTECTION AGAINST ELECTRIC SHOCK</b>		
10.3	Replace:		
	Contact between a pin of a plug and a live socket-contact of a socket-outlet while any other pin is accessible: not possible		P
	A gauge having the dimensions given in subclause 22.1, is applied with a force of 75 N for 1 min, maintaining it perpendicular to the front surface of the socket-outlet:		
	- one live pins of the gauge is positioned against one entry hole of live socket-contacts of socket-outlet under test: it is not possible to make an electrical contact between the live socket-contacts of the socket-outlet and the pins of the gauge		P
	- one live pins and the earthing pin of the gauge is positioned against two entry holes of socket-contacts such as the live pin is positioned on the hole of earthing socket-contact and the earthing		P



IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	pin is positioned on the hole of live socket-contact: it is not possible to make an electrical contact between the live socket-contacts of the socket-outlet and the pins of the gauge		
10.101	Add:		
	Plugs: live parts not accessible		
	Test wire of 1 mm diameter (figure 10) applied with a force of 1 N on all accessible surfaces of plugs inserted in the relevant socket-outlets does not touch live parts		N/A
	Accessories with electrometric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		N/A

<b>12</b>	<b>TERMINALS AND TERMINATIONS</b>	N/A
<b>16</b>	<b>RESISTANCE TO AGEING, PROTECTION PROVIDED BY ENCLOSURES AND RESISTANCE TO HUMIDITY</b>	N/A
<b>17</b>	<b>INSULATION RESISTANCE AND ELECTRIC STRENGTH</b>	N/A
<b>18</b>	<b>OPERATION OF EARTHING CONTACTS</b>	N/A
<b>19</b>	<b>TEMPERATURE RISE</b>	N/A
<b>20</b>	<b>BREAKING CAPACITY</b>	N/A
<b>21</b>	<b>NORMAL OPERATION</b>	N/A
<b>22</b>	<b>FORCE NECESSARY TO WITHDRAW THE PLUG</b>	N/A
<b>24</b>	<b>MECHANICAL STRENGTH</b>	N/A

<b>26</b>	<b>SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS</b>	
26.1	Add:	
	Test for screws for fixing covers or cover plates also intended for decorative purposes:	
	- 10 times for screws in engagement with a thread of insulating material and for screws of insulating material	N/A
	- 5 times for all other cases	P
	- screw diameter (mm); torque (Nm) .....: 3,4 mm; 0,8 Nm	—
	During the test: no damage impairing the further use of the screwed connections	P

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	<b>ANNEX IT01 - Multiple receptivity socket-outlets P40</b>		
<b>Part I (normative)</b>	<b>CONSTRUCTION AND ELECTRICAL PRESCRIPTIONS OF THE MULTIPLE RECEPTIVITY SOCKET-OUTLET P40</b>		
<b>9</b>	<b>CHECKING OF DIMENSIONS</b>		
9.1	Replace all paragraph:		
	Dispositions and dimensions of holes of the socket-outlet P40 comply with Figure 102	See Annex 1	P
	Plugs according to standard sheets S30, S31, S32: coupling with socket-outlet P40 checked by:		
	- gauge C10 (ex CEI UNEL 09336-64)		P
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2	See Annex 1	P
	Socket-outlets according to standard sheets P40: easy insertion and withdrawal of plugs complying with Standard CEI EN 50075		P

<b>16</b>	<b>RESISTANCE TO AGEING, PROTECTION PROVIDED BY ENCLOSURES AND RESISTANCE TO HUMIDITY</b>		N/A
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<b>18</b>	<b>OPERATION OF EARTHING CONTACTS</b>		
	Add (type P40 socket-outlets):		
	Checked by measuring the force exerted by the side earthing contacts by means of the device shown in Figure 101:		
	The average value of the forces necessary to move each contact to the indicated position is $\geq 5$ N (N) .....	right 12,6 N left 11,4 N	P

<b>19</b>	<b>TEMPERATURE RISE</b>		
	Add (multiple receptivity socket-outlets, P40):		
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets (with S11 plug)</i>		
	Test current as specified in table 20 passed for 1 h (A) .....	<b>16 A</b>	—
	Temperature rise of terminals not exceed 45 K .....	Max 17,5 K	P
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	- the earthing contact, if any, and the nearest phase contact (K) .....	Max 17,7 K	P

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K) .....: Max 5,0 K		P
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets (with S30 plug)</i>		
	Test current as specified in table 20 passed for 1 h (A) .....: <b>22 A</b>		—
	Temperature rise of terminals not exceed 45 K .....: Max 36,6 K		P
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K) .....:		N/A
	- the earthing contact, if any, and the nearest phase contact (K) .....: Max 39,7 K		P
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K) .....: Max 9,9 K		P
	<i>Set of three samples (XYZ) without shutters, submitted to the test expected for 16 A socket-outlets (with S17 plug)</i>		
	Test current as specified in table 20 passed for 1 h (A) .....: <b>22 A</b>		—
	Temperature rise of terminals not exceed 45 K .....: Max 31,2 K		P
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K) .....:		N/A
	- the earthing contact, if any, and the nearest phase contact (K) .....: Max 32,8 K		P
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K) .....: Max 7,4 K		P
19.3	Add in the first and the third dash:		
	Incorporated components are short circuited when connected in series, while are disconnected when connected between live poles		N/A
	Add in the second and fourth dash:		
	When the incorporated components require power supply for their correct operation, the test is carried out at the rated voltage		N/A

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

<b>19</b>	<b>TEMPERATURE RISE</b>		
	Add (single receptivity socket-outlets, P11):		
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets (with S11 plug)</i>		
	Test current as specified in table 20 passed for 1 h (A) .....	<b>16 A</b>	—
	Temperature rise of terminals not exceed 45 K .....	Max 25,4 K	
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	- the earthing contact, if any, and the nearest phase contact (K) .....	Max 27,8 K	
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K) .....	Max 3,8 K	P

<b>20</b>	<b>BREAKING CAPACITY</b>		
	Add (multiple receptivity socket-outlets, P40):		
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets (with S11 plug)</i>		
	100 strokes; 30 strokes per minute; 275 V; 12,5 A; $\cos \varphi$ 0,6		P
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets (with S30 plug)</i>		
	100 strokes; 30 strokes per minute; 275 V; 20 A; $\cos \varphi$ 0,6		P
	<i>Set of three samples (XYZ) without shutters, submitted to the test expected for 16 A socket-outlets (with S17 plug)</i>		
	100 strokes; 30 strokes per minute; 275 V; 20 A; $\cos \varphi$ 0,6		P
	<i>Set of three samples (STU) without shutters, submitted to the test expected for 10 and 16 A socket-outlets</i>		
	30 strokes; 30 strokes per minute; 275 V; 12,5 A; $\cos \varphi$ 0,6 (with S11 plug)		P
	30 strokes; 30 strokes per minute; 275 V; 20 A; $\cos \varphi$ 0,6 (with S30 plug)		P
	40 strokes; 30 strokes per minute;		P

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	275 V; 20 A; $\cos \varphi$ 0,6 (with S17 plug)		
	During the test: no sustained arcing occur		P
	After the test:		
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P

<b>20</b>	<b>BREAKING CAPACITY</b>		
	Add (single receptivity socket-outlets, P11):		
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets (with S11 plug)</i>		
	100 strokes; 30 strokes per minute; 275 V; 12,5 A; $\cos \varphi$ 0,6		P
	During the test: no sustained arcing occur		P
	After the test:		
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P

<b>21</b>	<b>NORMAL OPERATION</b>		
	Add (multiple receptivity socket-outlets, P40):		
	<i>Set of three samples (ABC) with shutters, submitted to the test expected for 10 A socket-outlets (with S11 plug)</i>		
	10000 strokes without current carried out with 10 A test plug		P
	After the test the following gauges applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces:		
	- Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		P
	- Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		P
	<i>Set of three samples (GHI) with shutters, submitted to the test expected for 16 A socket-outlets (with S30 plug)</i>		
	10000 strokes without current carried out with 16 A test plug		P
	After the test the following gauges applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces:		

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	- Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		P
	- Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		P
	<i>Set of three samples (JKL) with shutters, submitted to the test expected for 16 A socket-outlets (with S17 plug)</i>		
	10000 strokes without current carried out with 16 A test plug		P
	After the test the following gauges applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces:		
	- Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		P
	- Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		P
	<i>Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets (with S11 plug)</i>		
	10000 strokes; 30 strokes per minute; 250 V; 10 A; $\cos \varphi 0,8$		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 10 A):		
	Temperature rise of terminals not exceed 45 K .....	Max 8,1 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	the earthing contact, if any, and the nearest phase contact (K) .....	Max 9,3 K	P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	b) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	c) test voltage (V) .....	1000 V / 1500 V	N/A
	d) test voltage (V) .....	1000 V / 1500 V	N/A
	e) test voltage (V) .....	1000 V / 1500 V	N/A
	During the test: no flashover or breakdown		P
	<i>Set of three samples (PQR) without shutters, submitted to the test expected for 16 A socket-outlets (with S30 plug)</i>		

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test		Verdict
	10000 strokes; 30 strokes per minute; 250 V; 16 A; $\cos \varphi 0,8$		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 16 A):		
	Temperature rise of terminals not exceed 45 K .....	Max 23,3 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	the earthing contact, if any, and the nearest phase contact (K) .....	Max 20,0 K	P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	b) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	c) test voltage (V) .....	1000 V / 1500 V	N/A
	d) test voltage (V) .....	1000 V / 1500 V	N/A
	e) test voltage (V) .....	1000 V / 1500 V	N/A
	During the test: no flashover or breakdown		P
	<i>Set of three samples (XYZ) without shutters, submitted to the test expected for 16 A socket-outlets (with S17 plug)</i>		
	10000 strokes; 30 strokes per minute; 250 V; 16 A; $\cos \varphi 0,8$		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 16 A):		
	Temperature rise of terminals not exceed 45 K .....	Max 22,2 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	the earthing contact, if any, and the nearest phase contact (K) .....	Max 19,5 K	P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	b) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	c) test voltage (V) .....	1000 V / 1500 V	N/A

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test		Verdict
	d) test voltage (V) .....	1000 V / 1500 V	N/A
	e) test voltage (V) .....	1000 V / 1500 V	N/A
	During the test: no flashover or breakdown		P
	<i>Set of three samples (STU) without shutters, submitted to the test expected for 10 and 16 A socket-outlets</i>		
	3000 strokes; 30 strokes per minute; 250 V; 10 A; $\cos \varphi$ 0,8 (with S11 plug)		P
	3000 strokes; 30 strokes per minute; 250 V; 16 A; $\cos \varphi$ 0,8 (with S30 plug)		P
	4000 strokes; 30 stroke per minute; 250 V; 16 A; $\cos \varphi$ 0,8 (with S17 plug)		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 10 A, with S11 plug):		
	Temperature rise of terminals not exceed 45 K .....	Max 7,6 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	the earthing contact, if any, and the nearest phase contact (K) .....	Max 10,3 K	P
	Temperature-rise test (requirements of clause 19, test current: 16 A, with S30 plug):		
	Temperature rise of terminals not exceed 45 K .....	Max 19,9 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	the earthing contact, if any, and the nearest phase contact (K) .....	Max 20,1 K	P
	Temperature-rise test (requirements of clause 19, test current: 16 A, with S17 plug):		
	Temperature rise of terminals not exceed 45 K .....	Max 18,7 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	the earthing contact, if any, and the nearest phase contact (K) .....	Max 18,6 K	P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		



IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test		Verdict
	a) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	b) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	c) test voltage (V) .....	1000 V / 1500 V	N/A
	d) test voltage (V) .....	1000 V / 1500 V	N/A
	e) test voltage (V) .....	1000 V / 1500 V	N/A
	During the test: no flashover or breakdown		P
<b>21</b>	<b>NORMAL OPERATION</b>		
	Add (single receptivity socket-outlets, P11):		
	Set of three samples (ABC) with shutters, submitted to the test expected for 10 A socket-outlets (with S11 plug)		
	10000 strokes without current carried out with 10 A test plug		P
	After the test the following gauges applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces:		
	- Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		P
	- Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		P
	Set of three samples (MNO) without shutters, submitted to the test expected for 10 A socket-outlets (with S11 plug)		
	10000 strokes; 30 strokes per minute; 250 V; 10 A; $\cos \varphi 0,8$		P
	During the test: no sustained arcing occur		P
	After the tests: no damage		P
	Temperature-rise test (requirements of clause 19, test current: 10 A):		
	Temperature rise of terminals not exceed 45 K .....	Max 10,4 K	P
	Separate tests made passing the current through:		
	the neutral contact, if any, and the adjacent phase contact (K) .....		N/A
	the earthing contact, if any, and the nearest phase contact (K) .....	Max 11,2 K	P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	b) test voltage (V) .....	1000 V / <b>1500 V</b>	P
	c) test voltage (V) .....	1000 V / 1500 V	N/A
	d) test voltage (V) .....	1000 V / 1500 V	N/A

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test		Verdict
	e) test voltage (V) .....	1000 V / 1500 V	N/A
	During the test: no flashover or breakdown		P
<b>22</b>	<b>FORCE NECESSARY TO WITHDRAW THE PLUG</b>		
	Add (multiple receptivity socket-outlets, P40):		
	<i>Set of three samples (MNO) without shutters, submitted to the test conditions expected for 10 A socket-outlets (with S11 plug)</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm) .....	50 N / 4,06 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm) .....	1,5 N / 3,94 mm	—
	The plug not fall from each individual contact-assembly within 30 s		P
	<i>Set of three samples (PQR) without shutters, submitted to the test conditions expected for 16 A socket-outlets (with S30 plug)</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm) .....	54 N / 4,86 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm) .....	2 N / 4,74 mm	—
	The plug not fall from each individual contact-assembly within 30 s		P
	<i>Set of three samples (XYZ) without shutters, submitted to the test conditions expected for 16 A socket-outlets (with S17 plug)</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm) .....	54 N / 5,06 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm) .....	2 N / 4,94 mm	—
	The plug not fall from each individual contact-		P

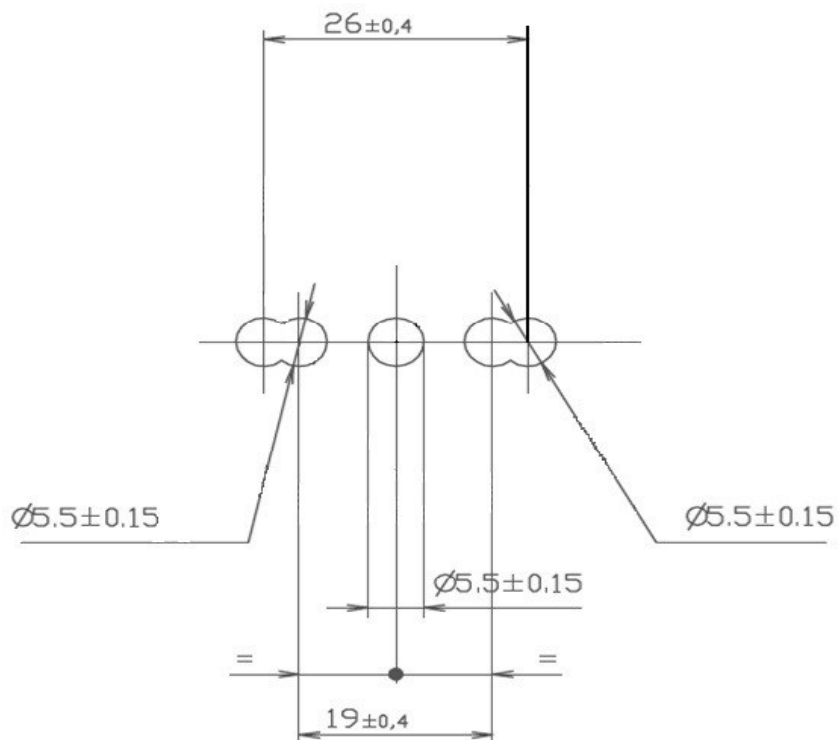
IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test		Verdict
	assembly within 30 s		
	<i>Set of three samples (STU) without shutters, submitted to the test conditions expected for 10 and 16 A socket-outlets</i>		
	<i>Test conditions expected for 10 A socket-outlets (with S11 plug)</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm).....	50 N / 4,06 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm).....	1,5 N / 3,94 mm	—
	The plug not fall from each individual contact-assembly within 30 s		P
	<i>Test conditions expected for 16 A socket-outlets (with S30 plug)</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm).....	54 N / 4,86 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm).....	2 N / 4,74 mm	—
	The plug not fall from each individual contact-assembly within 30 s		P
	<i>Test conditions expected for 16 A socket-outlets (with S17 plug)</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm).....	54 N / 5,0 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm).....	2 N / 4,9 mm	—
	The plug not fall from each individual contact-assembly within 30 s		P

IT_ND_IEC60884-1D_II ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

<b>22</b>	<b>FORCE NECESSARY TO WITHDRAW THE PLUG</b>		
	Add (single receptivity socket-outlets, P11):		
	<i>Set of three samples (MNO) without shutters, submitted to the test conditions expected for 10 A socket-outlets (with S11 plug)</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm).....:	50 N / 4,03 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm).....:	1,5 N / 3,90 mm	—
	The plug not fall from each individual contact-assembly within 30 s		P
	<i>Test conditions expected for 10 A socket-outlets (with S11 plug)</i>		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		
	- Maximum withdrawal force (N) / pins diameter (mm).....:	50 N / 4,03 mm	—
	The plug not remain in the socket-outlet		P
22.2	Verification of the minimum withdrawal force (single-pin gauge)		
	- Minimum withdrawal force (N) / pin diameter (mm).....:	1,5 N / 3,90 mm	—
	The plug not fall from each individual contact-assembly within 30 s		P

**Annex 1:**

Dimensional checking (Standard sheet P40 of Standard CEI 23-50:2007+V1+V2+V3+V4) (Italian language)

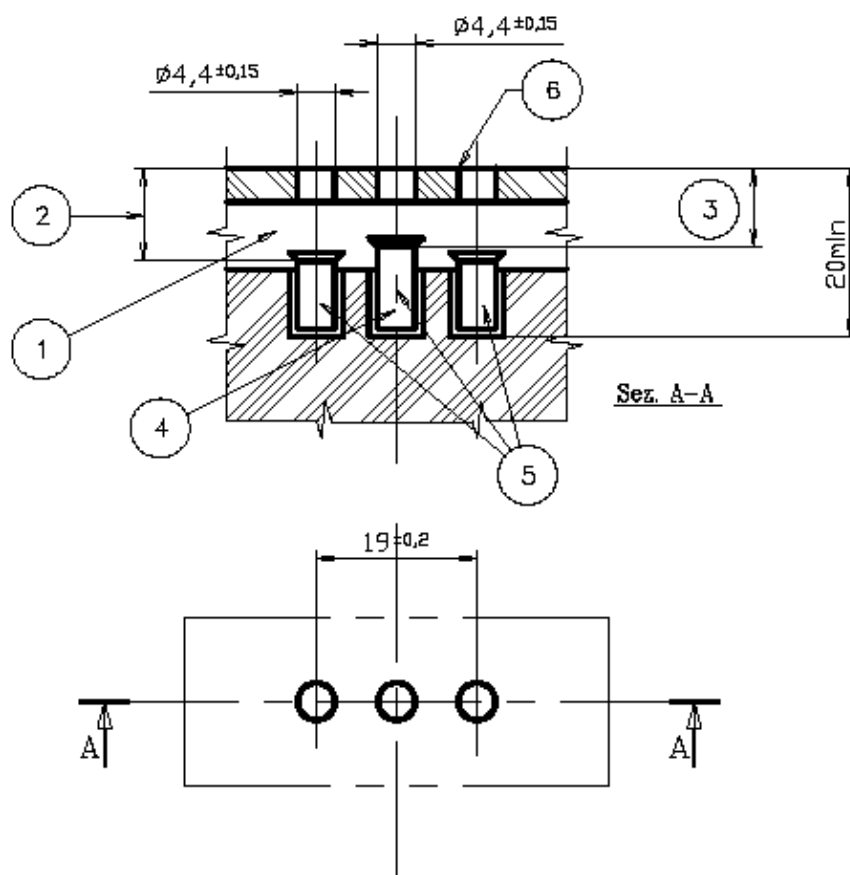
**Foglio di normalizzazione P40 (attachment IT01 – Part I)***Dimensioni in millimetri*

NOTA 1) Il foro dell'alveolo di terra deve risultare nel piano dei fori degli alveoli attivi (con tolleranza  $\pm 0,15$  mm) ed in posizione centrale equidistante dai fori degli alveoli attivi (con tolleranza  $\pm 0,15$  mm).

**Annex 1:** Dimensional checking (Standard sheet P40 of Standard CEI 23-50:2007+V1+V2+V3+V4) (Italian language)

**Foglio di normalizzazione P11**  
**10 A 250 V ~**  
**Presa bipolare con contatto di terra**

*Dimensioni in millimetri*



- 1) Spazio per schermi che sono obbligatori.
  - 2) Distanza tra superficie frontale della presa e punto di primo contatto degli alveoli attivi. Questa distanza deve essere compresa tra 10 mm e 13,5 mm. La verifica si effettua con calibro C1.
  - 3) Distanza tra superficie frontale della presa e punto di primo contatto dell'alveolo di terra. Questa deve essere inferiore alla distanza di cui al punto 2 e tale che:
    - quando si inserisce la spina relativa, la connessione di terra venga realizzata prima che i contatti attivi della spina vengano connessi;
    - quando si estrae la spina, i contatti attivi debbano venire separati prima dell'interruzione della connessione di terra.
  - 4) Contatto di terra.
  - 5) I contatti devono essere elastici. Essi possono avere forma diversa da quella cilindrica.
  - 6) fori d'ingresso devono essere smussati o raggiati.
  - 7) Il foro dell'alveolo di terra deve risultare nel piano dei fori degli alveoli attivi (con tolleranza  $\pm 0,1$  mm) in posizione centrale equidistante dai fori degli alveoli attivi (con tolleranza  $\pm 0,2$  mm).
- Le parti non quotate non sono vincolate dalla presente unificazione.

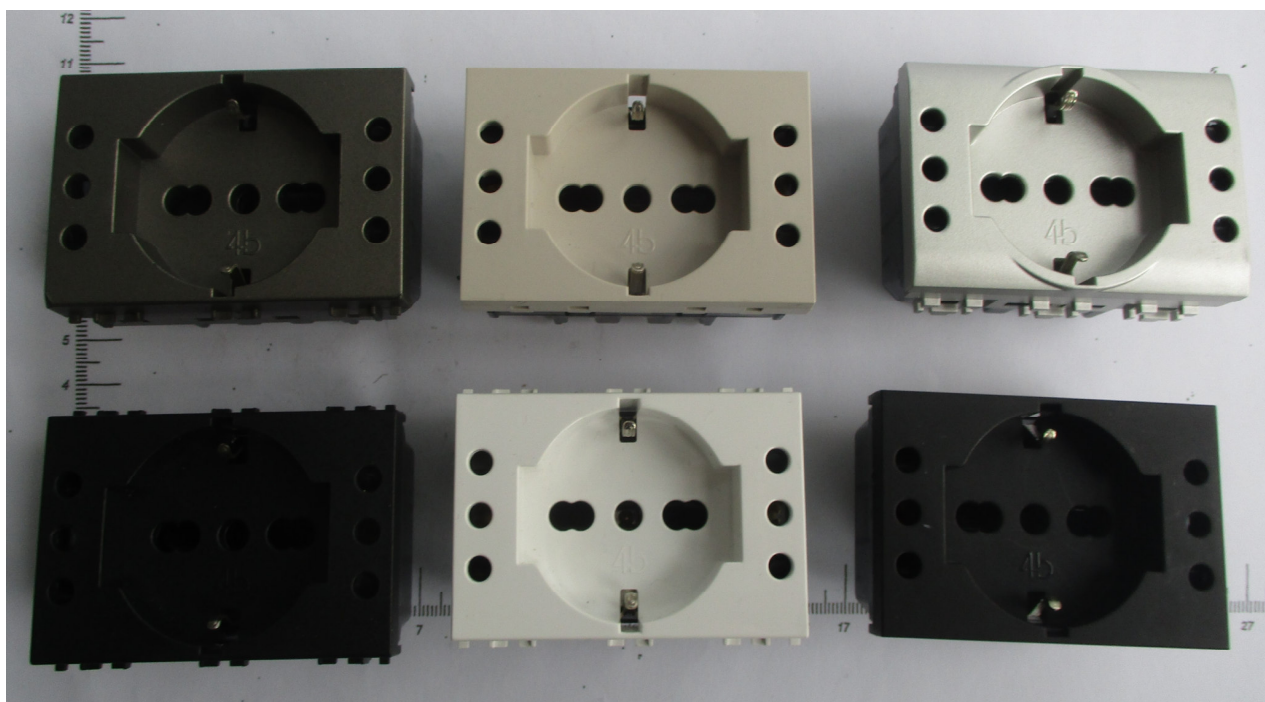
**Annex 1:** Dimensional checking (Standard sheet P40 of Standard CEI 23-50:2007+V1+V2+V3+V4) (Italian language)

Punto	Prescrizione	Risultato - Nota	Esito
1	Schermi: obbligatori		P
2	Distanza tra la superficie frontale della presa ed il punto di primo contatto degli alveoli attivi: compresa tra 10 e 13,5 mm (verifica con il calibro C1)		P
3	Distanza tra la superficie frontale della presa ed il punto di primo contatto dell'alveolo di terra: inferiore a quella di cui al punto 2 in maniera tale che quando si inserisce la spina la connessione di terra venga realizzata prima che i contatti attivi della spina vengano connessi e che, quando si estrae la spina, i contatti attivi vengano separati prima dell'interruzione della connessione di terra.		P
4	Contatto di terra		P
5	Contatti: elastici		P
6	Fori di ingresso: smussati o raggiati	smussati / <b>raggiati</b>	P
7	Foro dell'alveolo di terra:		
	- nel piano dei fori degli alveoli attivi, con tolleranza $\pm 0,1$ mm	Es. 1: 0 mm Es. 2: 0 mm Es. 3: 0 mm	P
	- equidistante dai fori degli alveoli attivi con tolleranza $\pm 0,2$ mm	Es. 1: 0,1 mm Es. 2: 0,1 mm Es. 3: 0,1 mm	P

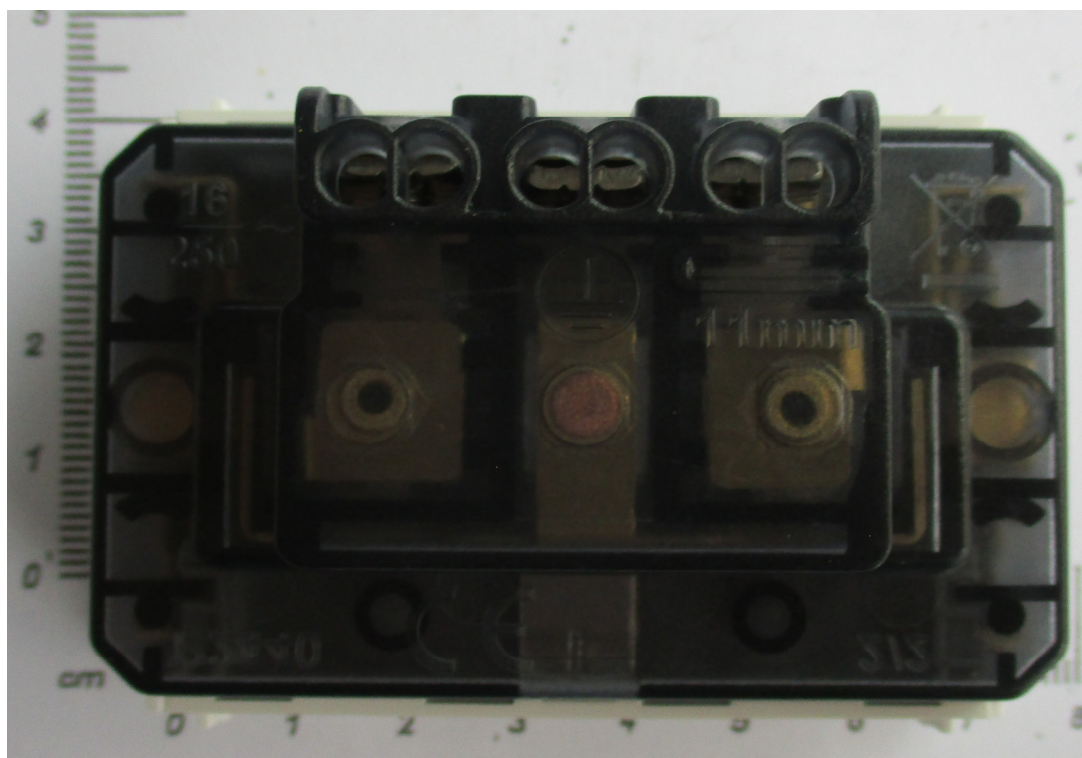
**ANNEX 2:** Photographic documentation:

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Type Ref. P503



Frontal view



Back view



**ANNEX 2:** Photographic documentation:

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Lateral View



Components