VDE

VDE Prüf- und Zertifizierungsinstitut

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Offenbach, 2001-07-25

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This is a translation of our test report. In case of doubt the German version will prevail.

Test Report
for the information of the applicant

Product: Electrical drawer system Inno Tech with internal organization for incorporation in furniture with nominal widths of 600 mm, 800 mm, 900 mm, 1000 mm, 1200 mm

This test report contains the results of a single investigation carried out on the product submitted. A sample of this product was tested and found in accordance with the thereafter listed standards resp. parts of standards.

The test report does not entitle to use a VDE Certification Mark and the mark "GS = geprüfte Sicherheit (tested safety)" and does not refer to all VDE specifications applicable for the tested product.

This test report may only be passed to a third party in its complete wording including this preamble and the date of issue.

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1. Order and extent of testing

As requested, an assessment of an electrical drawer system for the Inno Tech programme with internal organization for incorporation in furniture with nominal widths of 600 mm, 800 mm, 900 mm, 1000 mm and 1200 mm was conducted at the VDE Institute on the basis of the standard **DIN VDE 0100 "Erection of power installations with rated voltages up to 1000 V", Part 724 "Electrical equipment in furniture and similar fitments, e.g. curtain-ledges, decorative covering" as well as Part 410:1997-01, Part 510:1997-01, Part 520:1996-01, Part 540:1991-11, Harmonisation Document HD 384.4.41S2/ 5.51S2/ 5.52S1/ 5.54S1.**

Testing was done under the assumption that the electrical equipment incorporated complies with applicable standards. The order did not include the testing of components.

2. Test object

The purpose of the electrical drawer system for the Inno Tech programme with internal organization for incorporation in furniture is the supply of small electrical kitchen appliances such as hand mixer or electrical knife.

The modular installation set-up consists of:

- A prefabricated supply cord (length ≈ 1 m) for the power supply of the socket-outlets with earthing contact in the electrical box. In each piece of furniture the connection to the supply side is established by a coupler provided by the installer. The cord connection between the fixed cupboard and the mobile drawer is established by means of cable shears to which the cord is fixed at several points and thus relieved from strain. The cable shears can withstand an endurance test with 100.000 cycles (according to statement of the manufacturer).
- A prefabricated interconnecting cord (length according to the nominal width of the electrical drawer box) from a push-on plug distributor in the right section of the drawer box to the left section. The interconnecting cord is fixed to the drawer box at several points and is thus relieved from strain.
- One prefabricated cord each (length ≈ 0.1 m) for the supply of the socket-outlets with earthing contact in the left and right section of the drawer box.
- one socket-outlet with earthing contact each incorporated in the left and the right section of the drawer box in a plastic insert and a hollow-wall outlet box. If properly mounted, the plastic insert can not be removed without the aid of a tool. The socket-outlets with earthing contact are equipped with child-proof devices. Each socket-outlet bears a clear and durable hint "Kontakt mit Flüssigkeiten vermeiden / avoid contact with liquids".

The electrical drawer system is rated for an operational voltage of 230 V AC and an operational current of up to 16 A.

A mounting instruction sheet with relevant hints for proper installation and normal use conditions is supplied together with the product. Certificates of independent testing bodies or conformity declarations by the manufacturer resp. were submitted for the components incorporated. Components which are not listed must not be used nor connected.

3. Conduction of testing and results

3.1 The assessment was done by visual inspection of the test object described under 2. The cooperation of the individual components was checked for compliance with the standards mentioned in 1. and with the documentation made available.

The visual inspection in this context did not reveal any non-conformities.

3.2 The measurement of the resistance of earthing continuity was conducted with the earthing continuity tester of type Elabo V 14524 PA with a testing current of 25 A. The measurement was done in the test object between the protection earth connector of the supply cord and the protection earth connectors of the socket-outlets.

The measurements conducted revealed values of < 0,1 Ω.

3.3 Measurements of the insulation resistance were conducted with the insulation tester of type Norma Unilap ISO with a test voltage of 500 V DC. The measurements were conducted between the protection earth connector of the supply cord and the live conductors and connection points of the components incorporated in the test object.

The measurements conducted revealed values of > 20 MΩ.

The test object in the presented form was found passing the tests conducted as per 3.1 to 3.3 and therefore can be considered in compliance with the standards mentioned in 1. and forming the basis of assessment.

Yours sincerely

VDE Testing and Certification Institute
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Karl Heinz Gompf

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ELEKTRONIK INFORMATIONSTECHNIK e.V.

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