

APPROVED

By the Order of the State Committee of Ukraine

for technical regulation and consumer policy

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Registered

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TECHNICAL REGULATION

on the Conformity Assessment of Safety of Low Voltage Equipment

I. General Provisions

1. This Technical Regulation (hereinafter Regulation) confirms with the Directive 73/23/EEC of EEC Council dated February 19, 1973 forwarded towards the harmonization of the laws of Member States of European Union relating to electrical equipment designed for use within certain voltage limits taking into the account the amendments of Directive 93/68/EEC of EEC Council dated June 22, 1993.

In this Regulation the main terms are applied in the meanings defined by the Laws of Ukraine "on Conformity Assessment", "on Accreditation of the Bodies for Conformity Assessment" and "on Standardization".

The term "electrical equipment" shall mean any appliances, which produce, transfer, use or distribute voltage like the following: electrical machines, electrical devices, transformers, cable products, domestic radio-electrical equipment, office equipment, etc., designed for use with a voltage rating of between 50 and 1000v for alternating current and between 75 and 1500v for direct current.

2. This Regulation applies to the producers, their authorized representatives, who are the residents of Ukraine, and suppliers, who place the electrical equipment into circulation, central bodies of executive power, who are in charge for the technical regulation and surveillance of electrical equipment safety (hereinafter bodies of executive power) and also bodies authorized for electrical equipment certification (hereinafter authorized bodies).

This Regulation is not applied to the electrical equipment and effects defined in Annex 1.

3. The placing of the electrical equipment into the circulation on the territory of Ukraine is allowed only if it is constructed and manufactured in accordance with safety requirements in force in Ukraine, which provide for that when properly installed and

maintained and used in applications for which it was made it does not endanger the safety of persons, domestic animals, and also property and environment.

4. The principal requirements of electrical equipment safety are referred to in point 8.

5. The electrical equipment which complies with the requirements of standards regarding safety from the officially published list of national standards to this Regulation shall be regarded as complying with the requirements of the point 3.

6. Before being placed on the market, the electrical equipment must have affixed to it or, where that is not possible, to its packaging and/or accompanying documentation, the national conformity marking, established by the decision of Cabinet of Ministries of Ukraine dated November 29, 2001, No 1599.

The implementation of the national conformity marking must meet the requirements established by Technical Regulation on conformity assessment modules and requirements regarding affixing of national conformity marking used in Technical Regulations on conformity assessment (hereinafter Regulation on assessment modules).

7. When electrical equipment is subject to other Technical Regulations on conformity assessment, which also provide for the affixing of the national conformity marking, such electrical equipment should also meet the requirements of these Technical Regulations.

Where one or more of such Technical Regulations, during a transitional period of their implementation, allow the manufacturer to choose the method of conformity assessment, the affixing of the national conformity marking shall mean the conformity to the provisions only of those Technical Regulations applied by the manufacture. In this case, in the documents, notices or instructions accompanying the electrical equipment, must be given registration data of the Technical Regulations applied, as published in Official Documents concerning their implementation.

Principal requirements of electrical equipment safety

8. According to the point 3 of the Regulation the consumers and also third persons during the implementation of electrical equipment in applications for which it was made must be protected from danger to their lives and (or) health and also to the property and environment.

Principal elements of electrical equipment safety:

a) on electrical equipment must be marked the essential characteristics, the recognition and observance of which is condition of safety operation. If affixing of this information on electrical equipment is not possible, it must be marked on accompanying notice;

b) the manufacturers or brand name or trade mark should be clearly printed directly on the electrical equipment or, where that is not possible, on the packaging.

c) the electrical equipment, together with its component parts should not create a danger during its assembling and connection, according to the established rules;

d) for the protection from hazards related to the electrical equipment during its designing and manufacturing the adequate technical measures should be foreseen, providing that

the equipment is used in application for which it was made and is maintained adequately, which ensure:

- 1) the protection of persons and domestic animals against danger of physical injury or other harm, which might be caused by direct or indirect electrical contact;
- 2) the protection against the presence in the equipment temperatures, arcs or radiation, which would cause a danger;
- 3) the protection of persons, domestic animals and property against non-electrical dangers caused by the electrical equipment which are revealed by experience;
- 4) the compliance of insulation with established requirements.

e) for the protection against hazards which may be caused by external influences on the electrical equipment the following must be ensured:

- 1) that the electrical equipment meets the expected mechanical requirements in such a way that persons, domestic animals and property are not endangered;
- 2) that the electrical equipment shall be resistant to non-mechanical influences in expected environmental conditions, in such a way that persons, domestic animals and property are not endangered;
- 3) safety for persons, domestic animals and property in foreseeable conditions of overload.

Electrical equipment conformity assessment

9. The conformity assessment of electrical equipment, which is not intended for direct connection to the voltage (component parts etc.), must be done using module A (internal production control) according to the Regulations on assessment modules.

In case of this module implementation the manufacturer or his authorized representative - resident of Ukraine (hereinafter the manufacturer) affixes to each product of electrical equipment and (or) to its label (packaging) the national marking of conformity and draws up the declaration of conformity (Annex 2).

10. Besides the manufacturer must establish the technical documentation described below, must keep it together with the declaration of conformity for a period ending at least 10 years after the last product has been manufactured and place it at the disposal of the bodies of executive power for inspection purposes upon request.

In the event of challenge the manufacture must submit to the bodies of executive power a report about the conformity of electrical equipment with the requirements according to point 3 drawn up by authorized body.

Technical documentation must cover all stages of design, manufacture and operation of the electrical equipment and must enable to assess its conformity to the requirements of this Regulation and must include:

- a general description of the electrical equipment;

- principal design and manufacturing drawings including schemes of components, sub-assemblies, circuits, etc.;
- descriptions and explanations necessary for the understanding of defined drawings and schemes and the operation of the electrical equipment;
- a list of the standards from the officially published list of national standards to this Regulation, which was applied in full or in part, and/or descriptions of the solutions adopted to satisfy the safety aspects of this Technical Regulation where standards for the specific type of electrical equipment are absent or have not been applied;
- results of design calculations, examinations carried out, etc.;
- electrical equipment test reports;
- specification (if available).

11. The manufacturer must take measures necessary in order that the manufacturing process shall ensure compliance of the manufactured electrical equipment with the technical documentation and with the requirements of this Regulation.

12. The conformity assessment of the electrical equipment, which is intended for direct connection to the voltage should be done using module Aa according to the Regulation of assessment modules - internal production control according to points 9 and 10 of this Regulation and to the following additional requirements:

the chosen by the producer authorized body verifies the electrical equipment in any time intervals. For the verification the authorized body chooses on the place of production or in the market the sample of finished product, researches and tests it according to the relevant standards from the list of national standards or makes adequate testing for conformity verification of the sample with the requirements of this Regulation;

in case when one or more samples tested do not meet the requirements of the Regulation, the authorized body informs the producer and the bodies of executive power about it so that they can undertake appropriate measures for the compliance of the products.

13. When the person responsible for the placing of products into circulation (supplier) is not the producer or authorized by him person, the conformity assessment should be done using module Aa according to the Regulation on modules, - internal production control, according to the point 9 of this Regulation and the following additional requirements:

the supplier under the supervision of the authorized by him body tests one sample from each electrical equipment lot, which is supplied or placed into the circulation, according to the relevant standards from the list of national

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14. The Regulation does not limit the producer to use more complicated product conformity assessment modules.

15. The execution of authorized body's functions according to points 12 and 13 is on contractual basis between it and the producer or supplier.

Annex 1

to article 2 of Technical Regulation
on the Conformity Assessment of
Safety of Low Voltage Equipment

LIST

**of electrical equipment and effects which do not fall under the Technical
Regulation on the Conformity Assessment of Safety of
Low Voltage Equipment**

Electrical equipment intended for the use in explosive atmosphere

Electrical equipment for X-ray and medical application

Electrical components for freight and passenger lifts

Electrical counters

Inspectors of electric fences

Radio and electric obstacles

Special electric equipment applied in ships, airplanes and railway

I.

ANNEX 2

to article 9 of Technical Regulation
on the Conformity Assessment of
Safety of Low Voltage Equipment

DECLARATION OF CONFORMITY

.....

(name and surname of manufacturer or his authorized person

.....

which are the residents of Ukraine or supplier, their address, identification number)

.....

(title, name and surname of authorized person)

confirms that electric equipment

(full name of electric equipment,

.....

type, trade mark, model)

produced as

(name and document marking)

**meets the requirements of Technical Regulation on the Conformity Assessment of
Safety of Low Voltage Equipment in accordance to**

.....

(names and markings of normative

.....

documents (if available))

Technical documentation for electric equipment according to the requirements of
Technical Regulation is available*

Test report of electrical equipment made under supervision of the authorized body on certification (if available).....

(name of authorized body on product certification)

.....№.....dated.....**

Declaration has been worked out on full responsibility of manufacturer/authorized person/supplier.

.....

.....

(signature)

(initials and surname)

.....

(date)

*This paragraph is used if conformity assessment held according to article 9, 10 or 12 of Technical Regulation

**This paragraph is used if conformity assessment held according to article 13 of Technical Regulation