

NATIONAL STANDARD OF
THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准 **GB**

电气装置安装工程
低压电器施工及验收规范
Code for construction and acceptance of
low-voltage apparatus electric equipment
installation engineering

GB 50254-96

Chief Editing Unit: Ministry of Power Industry of PRC
Approving Department: Ministry of Construction of PRC
Effective Date: December 1, 1996

Circular for Issuance of 4 National Standards, including Code for
Construction and Acceptance of Low-voltage Apparatus Electric
Equipment Installation Engineering, etc

No. JB [1996] 337

The four national standards including *Code for Construction and Acceptance of Low-voltage Apparatus Electric Equipment Installation Engineering*, etc, revised by Ministry of Power Industry together with other concerned departments, as it is required by Document No. JZ[1986]2630 issued by State Planning Commission and Document No. [91]JBJZ 6 issued by Ministry of Construction, have been jointly examined by concerned authorities. It is hereby to approve the following standards as compulsory national standards to be implemented from December 1 of 1996: *Code for Construction and Acceptance of Low-voltage Apparatus Electric Equipment Installation Engineering* No. GB 50254-96, *Code for construction and acceptance of power converter equipment electric equipment installation engineering* No. GB50255-96, *Code for construction and acceptance of electric device of crane electrical equipment installation engineering* No. GB 50256-96 and *Code for construction and acceptance of electric device for*

explosion atmospheres and fire hazard electrical equipment installation engineering No. GB 50257-96. The Part Seven: *Low-voltage Apparatus Electric Equipment Volume, Part Six: Silicon Rectifier Device Volume, Part Eight: Electric Device of Crane Electrical Equipment Volume and Part Sixteen: Electric Device for Explosion Atmospheres and Fire Hazard Electrical Equipment Volume* contained in the original *Code for construction and acceptance of electric device installation engineering* No. GBJ 232-82 shall be abolished at the same time.

This Code shall be administrated by Ministry of Power Industry and construed by Electric Power Construction Research Institute under Ministry of Electric Power. The publish shall be organized by Institute of Standard and Rations under Ministry of Construction.

Ministry of Construction of PRC
On 5th day of June, 1996

1 General

1.0.1 This code is formulated to ensure the installation quality of low-voltage apparatus, improve the progress of construction install technique and guarantee the safe operation of installed equipment.

1.0.2 This Code is applicable to the universal low voltage apparatus of AC 50Hz/1200V rated voltage or less, or 1500V DC rated voltage or less which are installed, adjusted and tested under normal conditions. It is not applicable to the installation and acceptance of home appliances, electric apparatus for protection of power system, instrumentations for electrical engineering, transmitters and electronic computers that are unnecessary for fixed installations, or the electric apparatus on complete set of boards, cabinets and boxes.

1.0.3 Constructions for the installations of low voltage apparatus shall be conducted according to the approved designs.

1.0.4 The transportation and safekeeping of low voltage apparatus shall accord with the provisions of the relevant national standards currently in force; when there is any special requirement on certain product, it shall meet the requirements of the technical documents for the product.

1.0.5 The period of custody and control for the equipment and materials of low voltage apparatus shall one year or less; if this period is exceeded, it shall accord with the special provisions for the safekeeping of the equipment and materials.

1.0.6 The equipment and materials adopted shall accord with the provisions of the national technical standards currently in force, with certificate of conformity issued and nameplate attached to equipment.

1.0.7 After equipment and materials arrived on site, it shall conduct following acceptance inspections in time:

1.0.7.1 Check to see if packaging and sealing are in good condition.

1.0.7.2 If technical documents are complete and there shall be packing list attached.

1.0.7.3 Check quantities according to packing list, and sizes and models shall be in line with design specifications; accessories and spare parts should be complete.

1.0.7.4 Appearance inspections shall be conducted according to the requirements of this Code.

1.0.8 The technical safety measures in constructions shall accord with the provisions of the national standards for safety technique currently in force and those stipulated in the technical documents of products.

1.0.9 The constructions of civil engineering in

connection with the installations of low voltage apparatus shall meet following requirements:

1.0.9.1 The civil engineering quality of buildings and structures in connection with the installations of low voltage apparatus shall meet the relevant provisions of the national code for the constructions and acceptance of civil engineering in force. If there is any special requirement on equipment or in design, it should also be met.

1.0.9.2 Civil engineering shall possess the following conditions before low voltage apparatus are installed:

(1) The constructions of roof and floorslabs shall be accomplished without leakage.

(2) Formworks and scaffolds, etc, that may impede apparatus installations shall be removed and the ground be cleaned up.

(3) Constructions of flooring subbase shall be accomplished and walls be marked with plastering elevation.

(4) Ambient humidity shall reach design requirements or the provisions in the technical documents of products.

(5) Constructions of the doors, windows, walls and decorating sheds for electric room, control room and operation room shall be accomplished and floors are finished.

(6) Equipment foundations and frameworks shall be strong enough for equipment installation; the quality of welded members shall be up to the mustard and the channel steel for foundation be fixed reliable.

(7) Locations and dimensions of embedded parts and reserved holes shall meet design requirements, and embedded parts be secure enough.

1.0.9.3 When equipment installation is finished, civil engineering shall meet following requirements before equipment are started up:

(1) All doors and windows are installed.

(2) The constructions that cannot be carried out during operation or affect the safety of operation shall be accomplished.

(3) The damaged portions in buildings that are caused in constructions shall be repaired.

1.0.10 Protections shall be well provided after installation and before startup.

1.0.11 Other than the provisions of this Code to be implemented, the constructions and acceptance of low voltage apparatus shall also accord with the provisions of the relevant national standards and codes currently in force.

2 General Provisions

2.0.1 Inspections before installation of low voltage apparatus shall meet following requirements:



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