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**GB**

**NATIONAL STANDARD**  
**OF THE PEOPLE'S REPUBLIC OF CHINA**  
中华人民共和国国家标准

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**Degrees of Protection Provided by**  
**Enclosures for Low-Voltage Apparatus**  
低压电器外壳防护等级

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# Degrees of Protection Provided by Enclosures for Low-Voltage Apparatus

This standard is equivalent International Standard IEC 947-1 (1988) "Low-voltage Switchgear and Controlgear - Part 1: General Rules" by reference to the requirements and rules on low-voltage apparatus enclosure protection degree specified in IEC 529 (1989) "Degrees of Protection Provided by Enclosures (IP Code)".

## 1 Subject Content and Application Scope

This standard specifies the requirements in classification, grading, marking, definition, testing method, and requalification of enclosure protection degree of low-voltage electrical apparatus (hereinafter referred as to electric apparatus).

This standard is applicable to enclosure protection grading of electric apparatus.

This standard is not applicable to protection of electric apparatus against physical damage, explosive / active gas, condensing wet (e.g. dew), mold, damage by insect, etc.

This standard is also not applicable to stress effect caused by short-circuit operation.

## 2 Normative References

GB 2900.18 Electrotechnical terminology - Low voltage apparatus

GB 14048.1 Low-voltage switchgear and controlgear - General rules

## 3 Terms, Symbols and Codes

### 3.1 Terms

#### 3.1.1 Enclosure

A part providing protection of equipment against certain external influences and, in any direction, protection against direct access or contact to alive part and running part.

Note: Barriers, shapes of openings or any other means - whether attached to the enclosure or formed by the enclosed equipment - suitable to prevent or limit direct access or contact of external solid subject to alive part and running part are considered as a part of the enclosure, except when they can be removed without the use of a key or tool.

#### 3.1.2 Degree of protection



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