



The universe of European standards for the safety of electrical equipment

All these standards are subject to

Low-Voltage Directive 2014/35/EU

Basic standards

Basic standards address general safety aspects and principles applicable to all machinery and equipment that only require to be laid down once. For example, they include the definitions of safety measures and safety categories.

Basic standards – examples

- EN 61140** Protection against electric shock –
Common requirements for installations
and equipment
- EN 60695*** Fire hazard testing

Product family standards

Product family standards relate to statements that are equally applicable to a group of similar products. They are frequently issued as a series of standards whereby the first part usually concerns general requirements while the other parts are devoted to special aspects.

Product family standards – some examples

- EN 60335*** Safety of household and similar electrical
appliances
- EN 60529** Degrees of protection provided by enclousures (IP code)
- EN 60950*** Information technology equipment - Safety
- EN 61010*** Safety requirements for electrical
equipment for measurement, control and
laboratory use

Product standards

Product standards address specific safety requirements for individual products or product groups.

Product standards – some examples

- EN 60215** Safety requirements for radio transmitting
equipment
- EN IEC 60238** Edison screw lampholders
- EN 60309*** Plugs, socket-outlets and couplers for
industrial purposes
- EN 60598*** Luminaires
- EN 60898*** Circuit-breakers for overcurrent protection
for household and similar installations
- EN 60947*** Low-voltage switchgear and control gear
- EN 61439*** Low-voltage switchgear and control gear
assemblies
- EN 61557*** Equipment for testing, measuring or
monitoring of protective measures
- EN 61558*** Safety of transformers, reactors, power
supply units and combinations thereof



Useful links

- European directives and regulations:
https://ec.europa.eu/growth/sectors_en
- European standards:
www.electrosuisse.ch

* This standard consists of several parts.

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