

# Safety regulations for electrical equipments in low-voltage power installations (2014/35/EU)

## 1. General endangerings

These safety regulations are valid in connection with the operating and maintenance instructions of the product and they are to be observed strictly. Electrical machines are equipped with hazardous live parts and rotating parts. Therefore, severest personal and physical damages can be caused through non-intended use, because of faulty operation, through imperfect maintenance and because of non-permissible disassembly of protective devices. It is to be guaranteed that only qualified persons (definition for skilled persons see EN 50110-1/DIN VDE 0105 or IEC 60364) will be engaged to realize any work at the equipments (such as design, transport, assembly, installation, commissioning, maintenance, repair, disassembly), though it should be noted that the documents for the mounting, the commissioning, the operation, the maintenance and the repair of the equipment are available and that they are to be observed.

## 2. Intended use

The machines are intended for industrial power installations. The conditions on the site have to coincide with all the data given on the rating plate. In particular the indicated degree of protection is to be realized by the driven machine. Corresponding details are part of the DIN EN 60034-1 / DIN VDE 0530 T.1.

## 3. Transport, storage

The ring bolts or shackles of the equipments are **exclusively** intended for transporting the equipments. Additional parts or loads must never be attached. Before the commissioning, existing transport lockings are to be removed. Electrical equipments with recognizable damages must never be put into operation.

## 4. Mounting of the equipment

When mounting the electrical equipment there is to be observed that the informations about the technical data and operating conditions (such as determined in the documents being part of the equipment), the general safety and mounting regulations and the specific regulations of the installation and of the operation are followed. In case of types of construction with the shaft end upwards, there must be taken measures preventing that foreign matters can fall into the ventilation system. For ensuring the unhindered ventilation of the machine, there are to be followed the informations given by part of the manufacturer.

## 5. Electric connection

The connection is to be realized only by qualified skilled persons and in released state being protected against re-starting. All the data being necessary for that are to be taken from the operating and maintenance instructions delivered with the equipment. Before re-starting the installation for the first time, there is to be checked if the electrical equipment is running in the required direction of rotation. When exceeding the tolerances according to DIN VDE 0530 part 1 / DIN EN 60034-1 (for voltage  $\pm 5\%$ , for frequency  $\pm 2\%$ ) and when deviating from the waveform and the symmetry, the temperature can possibly rise and the electromagnetic compatibility can be impaired.

## 6. Operation

The maintenance measures specified in the operating and maintenance instructions are to be carried out by a qualified personnel in regular periods. The reasons for every variation in view of the normal operation, in particular the reasons for modified noise, for modified temperatures and for the reaction of protective devices are to be determined and eliminated by qualified personnel. If there's any doubt, the equipment is to be switched-off immediately.

## 7. Important information

Because of the great variety of the operating conditions and for the clear understanding of the operating and maintenance instructions, it is only the general case of application which can be considered in this operating and maintenance manual. For special cases (such as exceptional environmental conditions or special safety instructions) it is necessary to come to an agreement with the manufacturer or with the selling company.

## 8. Warranty

The warranty requires the observance of the safety regulations and of the operating and maintenance instructions as well as the intended use. In case of further questions, requirements and instructions please contact us indicating the type of motor and the number of motor.

The Safety Regulations and the Operating Instruction must be kept in a safe place.