



Safety and operating instructions for drive controllers

in conformity with the low voltage directive 73/23/EEC

1. General

In operation, drive controllers may have live, uninsulated and possibly also moving or rotating parts, as well as hot surfaces, depending on their degree of protection.

In case of inadmissible removal of the required covers, of improper use, wrong installation or incorrect operation, there is the danger of serious personal injury and damage to property.

For the further information, see documentation.

All operations serving transport, installation and commissioning (startup) as well as maintenance are to be carried out by skilled technical personnel (in accordance of IEC 364 or CENELEC HD 384 or DIN VDE 0100 and IEC 664 or DIN/VDE 0110 and national accident prevention rules).

For the purposes of these basic safety instructions, skilled technical personnel means persons who are familiar with the installation, assembly, startup and operation of the product and have the qualifications needed for the performance of their duties.

2. Intended use

Drive controllers are components designed for inclusion in electrical installations or machinery.

In case of installation in machinery, commissioning of the drive controller (i.e. the starting of normal operation) is prohibited until the machinery has been proved to conform to the provisions of the directive 89/392/EEC (Machinery Safety Directive - MSD). Account is to be taken of EN 60204.

Commissioning (i.e. the starting of normal operation) is admissible only where conformity with the EMC directive (89/336/EEC) has been established.

The drive controllers meet the requirements of the low-voltage directive 73/23/EEC. They are subject to the harmonized standards of the series EN 50178/DIN VDE 0160 in conjunction with EN 60439-1/VDE 0660, part 500, and EN 601 46/VDE 0558.

The technical data as well as information concerning the supply conditions shall be taken from the rating plate and from the documentation and shall be strictly observed.

3. Transport, storage

The instructions for transport, storage and proper use shall be complied with.

The climatic conditions shall be in conformity with EN 50178.

4. Installation

The installation and cooling of the appliances shall be in accordance with the specifications in the pertinent documentation.

The drive controllers shall be protected against excessive strain. In particular, no components must be bent or isolating distances altered in the course of transportation or handling. Electronic components and contacts shall not be touched.

Drive controllers contain electrostatic sensitive components which are liable to damage through improper use. Electric components must not be mechanically damaged or destroyed (potential health risks).

5. Electrical connection

When working on live drive controllers, the applicable national accident prevention rules (e.g. VBG 4) must be complied with. The electrical installation shall be carried out in accordance with the relevant requirements (e. g. cross sectional areas of conductors, fusing, PE connection). For further information, see documentation.

Instructions for the installation in accordance with EMC requirements, like shielding, grounding, location of filters and wiring, are contained in the drive controller documentation. They must always be complied with in the case of drive controllers bearing a CE - marking. Observance of the limit values required by EMC law is the responsibility of the manufacturer of the installation or machine.

6. Operation

Installations which include drive controllers shall be equipped with additional control and protective devices in accordance with the relevant applicable safety requirements, e.g. law on technical equipment, accident prevention rules etc. Changes to the drive controllers by means of the operating software are admissible.

After disconnection of the drive controller from the voltage supply, live appliance parts and power terminals must not be touched immediately because of possibly energized capacitors. In this respect, the corresponding signs and markings on the drive controller must be respected.

During operation, all covers and doors shall be kept closed.

7. Maintenance and servicing

Comply with the manufacturer's documentation.

☞ KEEP THESE SAFETY INSTRUCTIONS IN A SAFE PLACE!