

# Safety instructions

If you use accessories, observe the safety instructions in the corresponding product documentation.

## General safety instructions

### **DANGER!**

Disregarding the following basic safety instructions and safety information may lead to severe personal injury and damage to property!

- Only use the product as directed.
- Never commission the product in the event of visible damage.
- Never modify the product technically.
- Never commission the product before assembly has been completed.
- Never operate the product without the required covers.
- Connect/disconnect all pluggable connections only in deenergized condition!
- Only remove the product from the installation in the deenergized state.
- The product can - depending on their degree of protection - have live, movable or rotating parts during or after operation. Surfaces can be hot.
- To prevent personal injury and damage to property, higher-level safety and protection systems must be used!
- The procedural notes and circuit details given in the associated documentation are suggestions and their transferability to the respective application has to be checked. The manufacturer of the product does not take responsibility for the suitability of the process and circuit proposals.
- All work with and on the product may only be carried out by qualified personnel. IEC 60364 and CENELEC HD 384 define the qualifications of these persons:
  - They are familiar with installing, mounting, commissioning, and operating the product.
  - They have the corresponding qualifications for their work.
  - They know and can apply all regulations for the prevention of accidents, directives, and laws applicable at the place of use.

## Residual hazards

### **DANGER!**

#### **Dangerous electrical voltage**

Defects in the product can lead to overvoltages in the system.

For products according to EN 61800-5-1:

- During operation and up to 20 minutes after poweroff, hazardous electrical voltages may be present at the connections of the product.
- The leakage current against earth (PE) is > 3.5 mA AC or > 10 mA DC.

#### **Possible consequences**

- Death or serious injury from electric shock.

#### **Protective measures**

- Any work on the product must only be carried out in a deenergized state.
- Check that no voltage is present!
- After switching off the mains voltage, observe the signs on the product.
- After switching off, wait until the drive comes to a standstill.
- Implement the measures required by EN IEC 61800-5-1 or EN IEC 60204-1, i.e. fixed installation and standard-compliant.