Safety instructions - it's essential to read these



Explanation of symbols
Two squares, one inside the other, indicate a DOUBLE or REINFORCED insulation of the device against dangerous high voltages (i.e. mains voltage). This is valid for all parts at the housing, which can be touched, for the operating elements and the low voltages generated by and lead from the device.



Explanation of symbols
An exclamation mark inside a triangle indicates important notes in the technical data sheet and in the notes on safety. Read both documents to the end prior to commissioning. They contain important notes for the correct operation and the installation. Non-observation and errors resulting from this can lead to dangers.

IK-Code according to EN 62262

The IK-Code determines the energy, which must not exceed in an hitting test.

Designated usage
The device must only be used for the purpose described in the relevant data sheet. The device conforms to the valid CE European guidelines and harmonised standards. Use in potentially explosive atmospheres, in medical or nuclear areas, outdoors or in damp rooms is NOT permitted. The device must only be operated with the specified nominal voltage. The specified switching capacities must not be exceeded. Opening or altering the device is not admissible. Do not repair the device yourself, but replace it with an equivalent new device. Repairs must only be carried out by the manufacturer. The manufacturer accepts no liability due to infringement. An operation under adverse environmental conditions is not admissible.
Adverse environmental conditions are:
- high sun radiation
- wetness, dewing or too high humidity
- dust and flammable gases, vapours or solvents
- strong vibrations or electro-magnetic fields
- Sea levels greater than 2000 m

The maximum impact energy for housing and connections is IK06 according to EN 62262. IK06 corresponds 1J.
Do not expose the device to stresses, which exceed the described limits.
Usage other than the one described in the relevant data sheet is not admissible and leads to damage of the product.
Furthermore, this is connected with dangers, as for instance short circuit, fire, electric shock etc., which can be fatal.

Notes on safety and dangers
Any warranty claim becomes void for damages due to non-observation of these notes on safety and the relevant technical data sheet.
The following points must be noted:
- the valid laws, standards and regulations
- the stand of technology at the time of the installation
- the handbook and/or the technical data sheet
- the recognised rules of technology
- the fact that operating instructions can only state general regulations and that these regulations must be observed
- the device is not a toy and does not belong in the hands of children
- only operate the device with undamaged connection lines.
- Does the device have visible damage after delivery or in operation to the housing, the mounting bracket or the terminals, the device must be immediately sent back to the manufacturer. Operation of devices with this damage is not allowed.

Notes on connection and installation
WARNING: dangerous electric voltage can lead to electric shock and burns.
- The installation and maintenance must be carried out by qualified electricians.
- Observe the technical data specified in the data sheet.
- Provide a correctly dimensioned overcurrent device and a performance-related disconnection for all poles in the vicinity of the device.
- Mount the device in an appropriate control box/control cabinet with a suitable type of protection according to IEC 60529 to protect it from mechanical or electrical damages.
- During maintenance work, cut the device off from all effective sources of energy and secure it against restart.
- If operating elements of protection class 1 are connected to the contact outputs of the device, the protective earthing conductor connection must be carried out separately and properly.

Electromagnetic compatibility (EMC)
Operate the device in the electromagnetic environment specified by the manufacturer. Observe the normative emission and immunity requirements specified in the technical data sheet.
Questions: info@grubatec.ch

- EMC - Classification into groups.

Group 1: Includes all devices that are not classified as group 2 devices.
Group 2: Includes all equipment in which RF energy in the frequency range from 9 kHz to 400 GHz is intentionally generated and used, or is used only locally, in the form of electromagnetic radiation or by using inductive and/or capacitive coupling, for the treatment of material, for material testing and/or analysis purposes, or for the transmission of electromagnetic energy.

- EMC - Classification

Class A equipment is equipment suitable for use in all areas other than residential and those areas directly connected to a low-voltage supply network that (also) supplies residential buildings.
Class B devices are devices suitable for use in residential areas and such areas directly connected to a low-voltage supply network that (also) supplies residential buildings.
Caution: Class A equipment is not intended for use in residential areas and may not provide adequate protection of radio reception in such environments.

ESD
ATTENTION: When handling the device, protective measures against electrostatic discharge must be observed.

Detailed technical documentation
Download: www.grubatec.ch

Maintenance and cleaning
The device is maintenance-free and does not have to be cleaned.

Disposal
Old electronic devices are valuable substances and do not belong into the household waste. If the device has reached the end of its useful life, dispose of the device according to the valid legal regulations.
Defective old devices can also be disposed of via the Adamczewski company.



Distributor
Grubatec AG
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