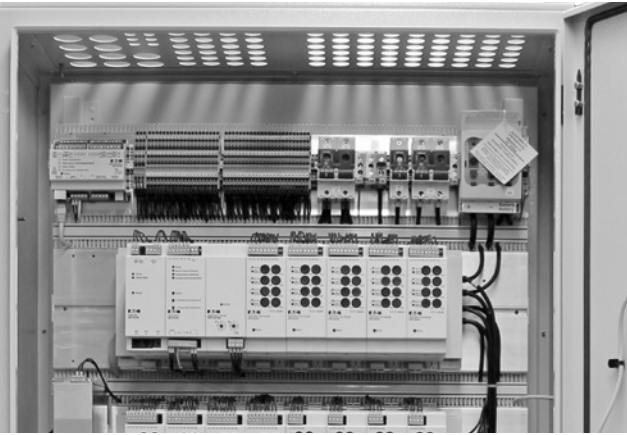
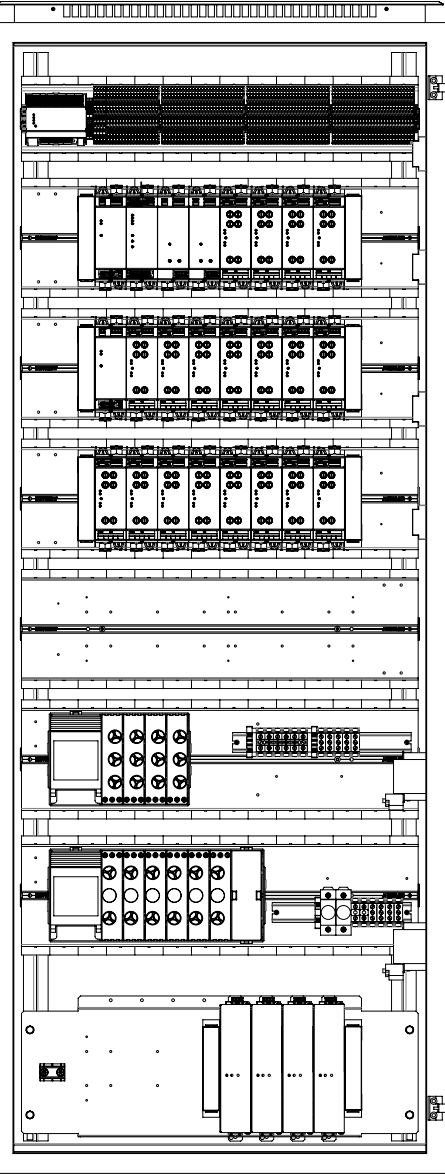


Kompaktschrank / Compact cabinet



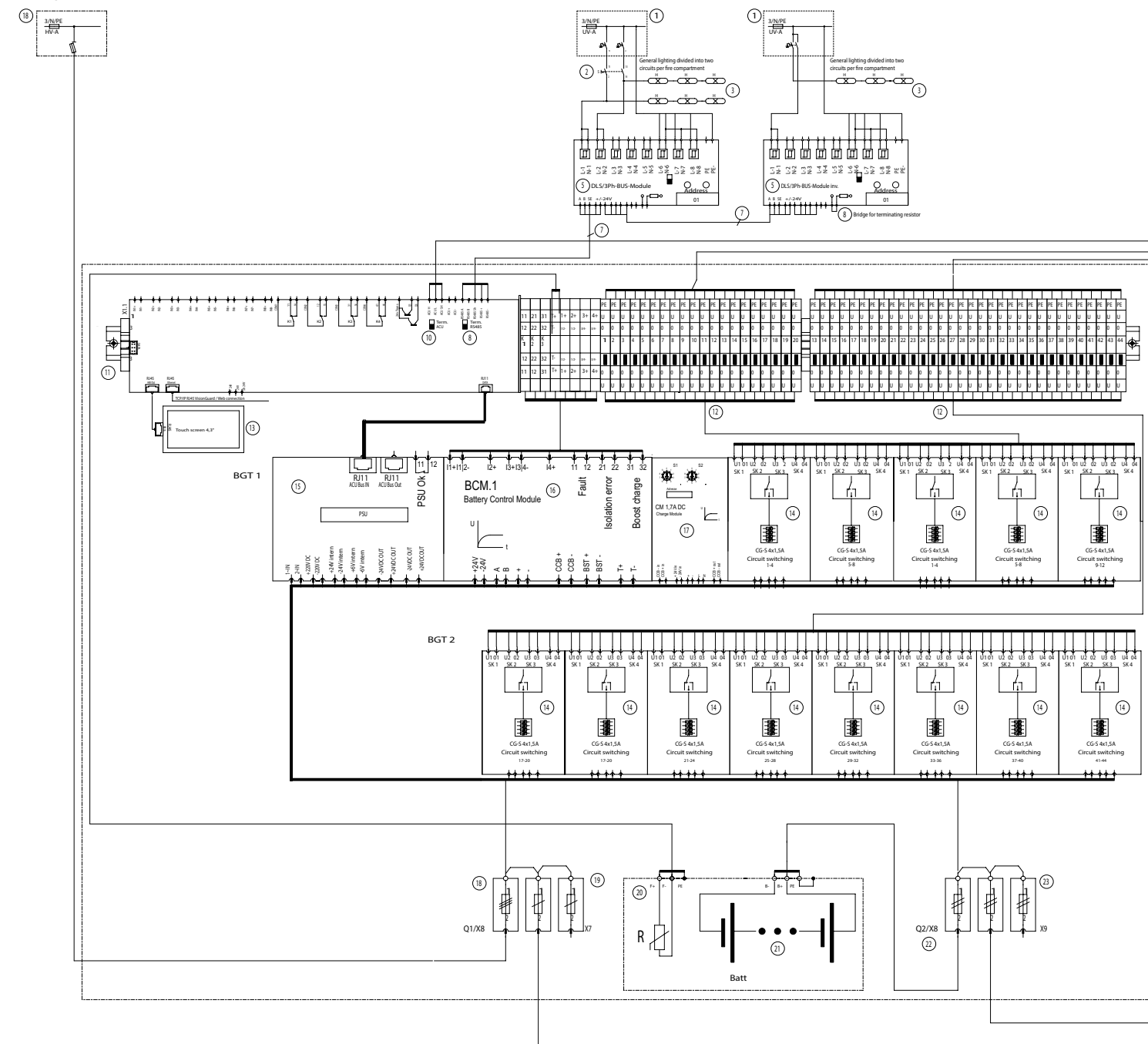
Standschrank / Stand-alone cabinet



- 1 Visible defects have to be announced immediately.
- 2 For installation all electronic components of the system must be covered up to protect them against dirt and filings.
- 3 Strip final circuits after introducing and deposit them onto connection terminal strip X1.1-X5.1, terminals 5 up to max. 72.
- 4 Connect bus lines with terminal strip ACU Module.
- 5 Connect mains with terminal strip X8/Q1 and battery line with terminal strip X8/Q2.
- 6 Deposit shunting lines mains /battery onto terminal X7/X9.
- 7 Check all connections about accuracy and stability.
- 8 Do the revision-marking of the final circuits on the modules.
- 9 Commissioning and other work
 - Remove all fuses.
 - Short the circuits and carry out the isolation measurement.
 - Remove jumper and reinsert the circuit fuses.
 - Switch on the mains voltage and insert the mains fuses.
 - Check voltage.
 - Before insertion battery fuse check the voltage and polarity.
 - Activate fault analysis by pressing the key 'FT' for a function test.
 - Set up system as specified in the mounting and operating instructions of LoadStar-S with STAR-technology.

Brief instructions / Example of installation LoadStar-S



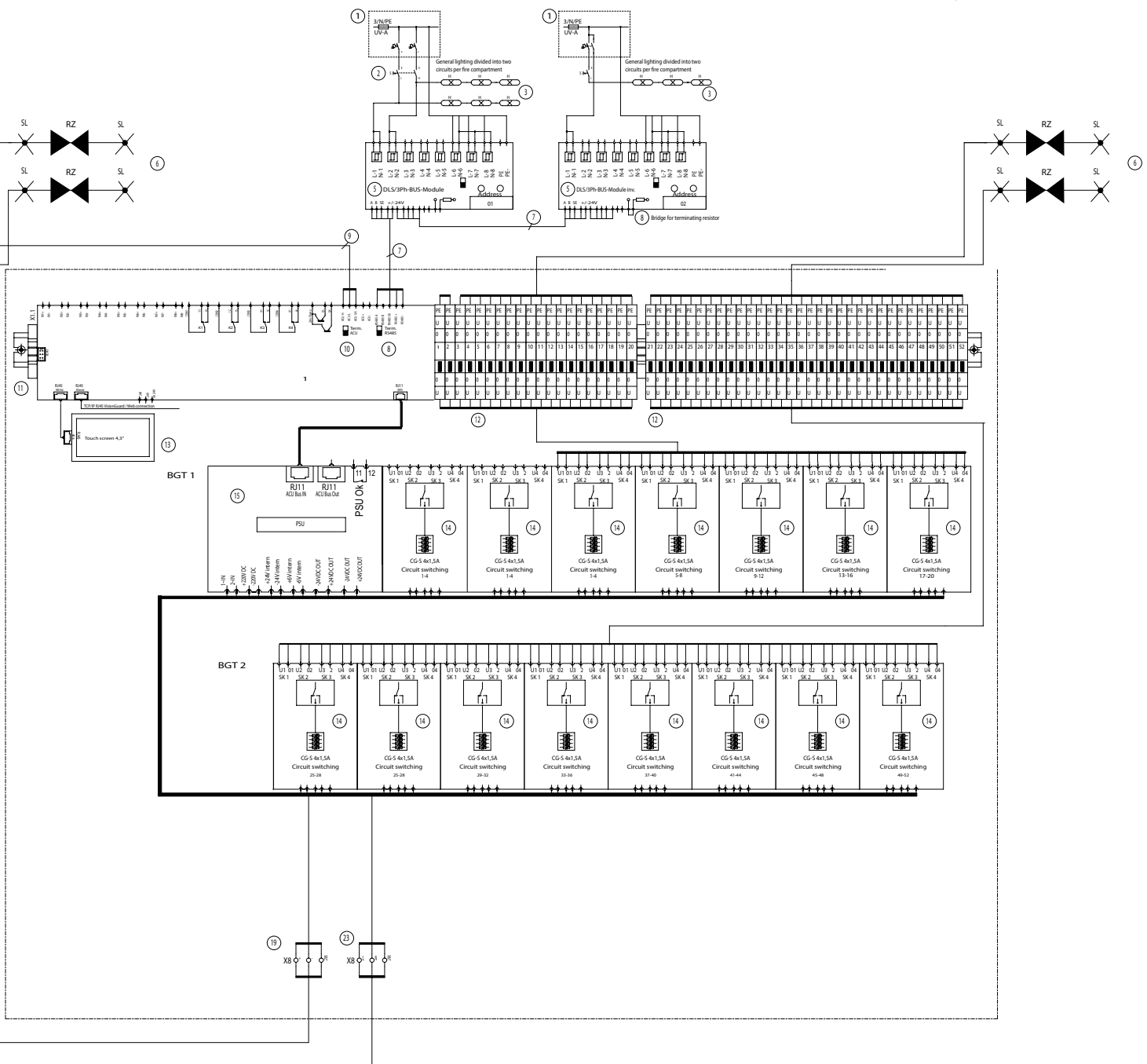


- 1 Sub distribution board general lighting
- 2 Light switch general lighting
- 3 General lighting
- 4 Staircase light pushbuttons incl. glow lamp
- 5 DLS/3Ph bus module for switching the connected safety lighting and monitoring up to 3 phases.

- 6 Final circuits of the safety lighting
- 7 RS 485 bus. For connecting max. 25 modules. Max. line length for line topology 1200 m. Type of cable: IY(ST)Y 4 x 2 x 0.8 mm². If line length longer than 1200 m a repeater/router has to be installed.
- 8 Terminal resistance 120 Ohm terminates the bus at the start and at the end to prevent reflections.

- 9 ACU bus. Up to 32 LoadStar-S units can be networked via the internal ACU bus in order to forward actions assigned to one unit to all units. Bus topology: linear, double terminated (no stub lines permitted). Cable type (minimum requirement): IY(ST)Y 4 x 2 x 0.8 mm (twisted pair, shielded) - the shield of the cables must be connected to the SE terminals of the ACU module. The 1200

- 10 ohm terminating resistor is integrated in the ACU modules and can be activated by the two upper DIL switches.
- 11 Terminal resistance 105 Ohm terminates the bus at the start and at the end to prevent reflections.
- 12 Terminal strip X1.1, to connect the bus lines, for central switch of the manual phase monitors, potential-free signal contacts, analog inputs.



- 12 Final circuits safety lighting. For connection to 5 up to max. 88 circuits on a 3-level-isolating neutral terminal acc. to system equipment and type.
- 13 Touch Display, for configuration and monitoring of the components.
- 14 Circuit change-over module SKU CG-S, 1 x 6 A, 2 x 3 A and 4 x 1.5 A.

- 15 PSU Module for supplying external and internal modules with 24V DC
- 16 BCM.1 Battery Control Module
- 17 Charging Module CM.1 1,7 A
- 18 230/400V 50Hz mains circuit connection one or three phase, acc. to type of system
- 19 230/400V 50Hz distribution mains one or three phase, acc. to type of system.
- 20 temperature sensor

- 21 216V lead acid battery acc. to EN 60896-2. 5.5 up to 308 Ah acc. to type of system.
- 22 216V battery circuit connection
- 23 216 V DC distribution to battery