

ESM-BA203 (Order no. 085612)

Base unit ESM-BA2..., 2 safety contacts, Cat. 4

- ▶ ESM-BA.. Use up to category 4 according to EN ISO 13849-1
- ▶ LED status indicators
- ▶ 1-channel or 2-channel control
- ▶ 2 redundant safety contacts
- ▶ Short circuit and earth fault/ground fault monitoring



Relay outputs

The outputs are electrically decoupled and of redundant design.

Connection options

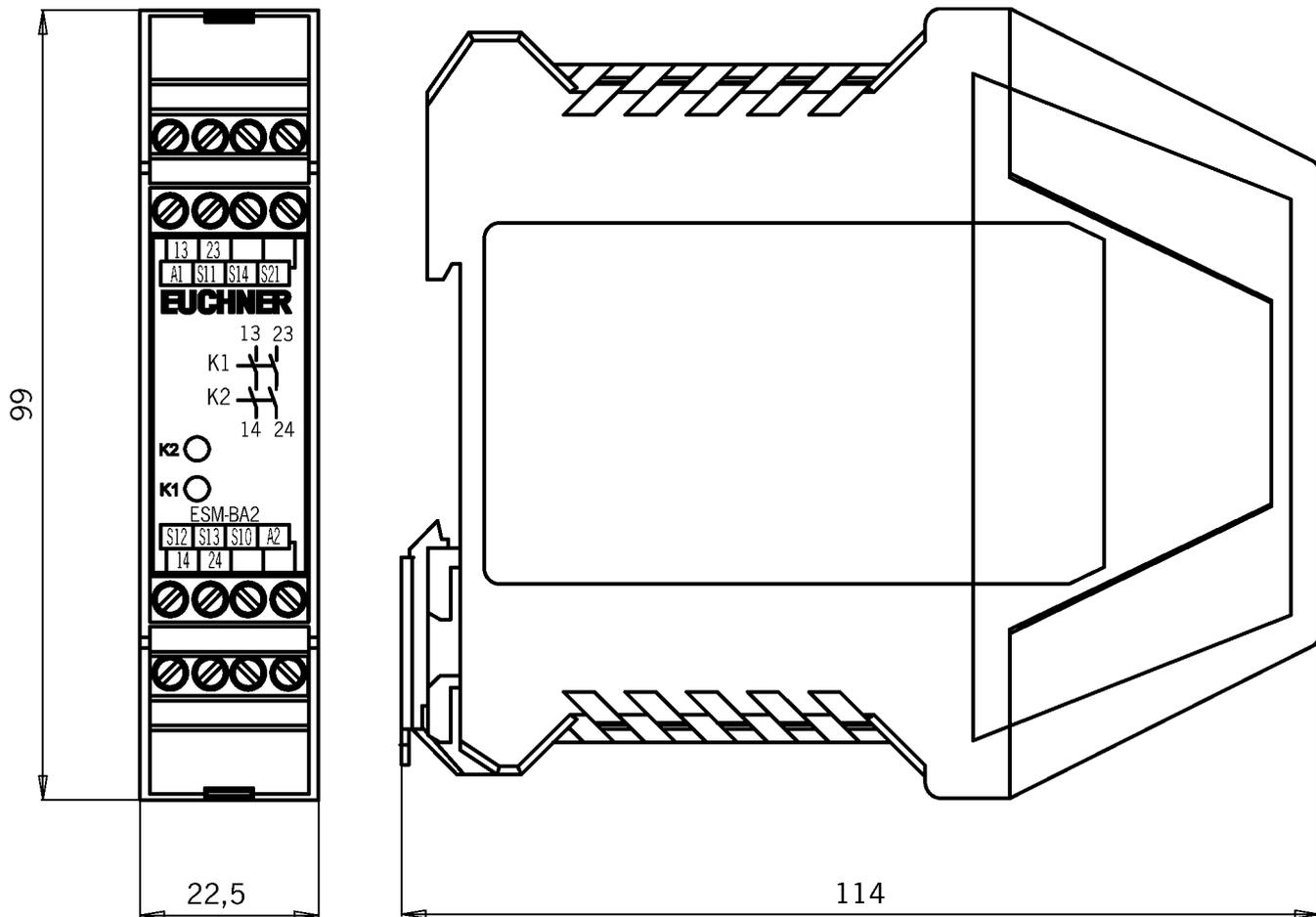
By using suitable wiring, the following functions can be selected:

- ▶ Relay start with automatic start or a start button
- ▶ Monitoring of downstream relays or contactors.
- ▶ Simultaneity monitoring to monitor safety components over time
- ▶ Relay start using a monitored start button
- ▶ Short circuit monitoring to detect short circuits between the connecting cables and to shut down the outputs or prevent relay starting if necessary
- ▶ Earth fault/ground fault monitoring to detect short circuits between the connecting cables and earth or ground and to shut down the outputs or prevent relay starting if necessary.

Connection terminals

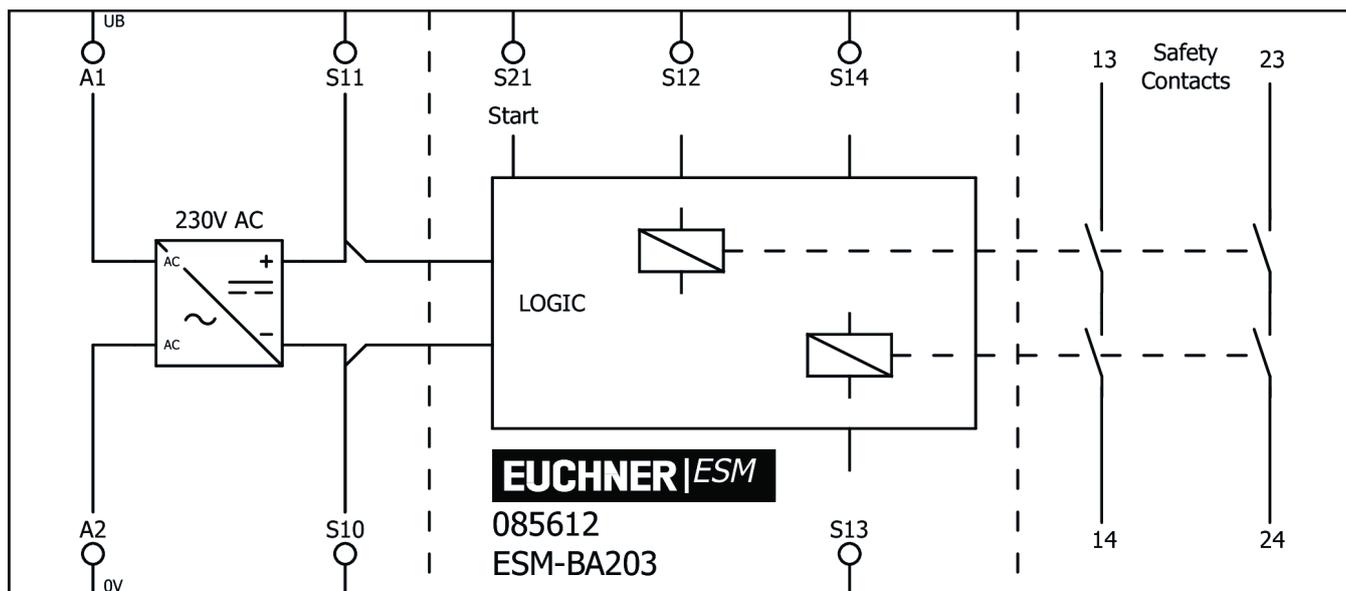
Optionally, the ESM-BA... devices are also available as versions with plug-in connection terminals.

Dimensional drawings



ESM-BA2...

Connection examples



Technical data

Approvals



Operating and display elements

LED display 2 status displays (green) for relays K1 and K2

Electrical connection values

Power consumption (apparent power)

at 230 V AC 3.7 VA

Connection cross section

0.14 ... 2.5 mm²

(Connection terminals (size))

Rated insulation voltage U_i

250 V

Rated supply frequency

50 ... 60 Hz

Rated impulse voltage U_{imp}

4 kV

Operating voltage

AC 230 V -10% ... +10%

Test voltage

Control system/contacts 2.5 kV

Control voltage

on S11 18.6 ... 26 V

Control current

S11...S14 40 mA

Degree of contamination (external,
according to EN 60947-1)

2

Mechanical values and environment

Connection type

Connection terminals

Storage temperature

-25 ... 70 °C

Control cable length

with conductor cross-section 0.75 mm² 1000 m