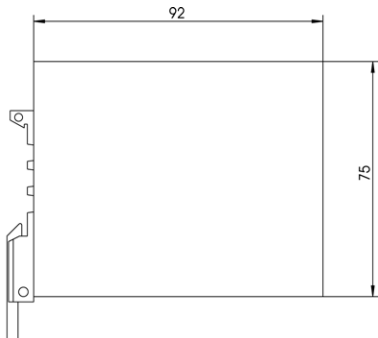
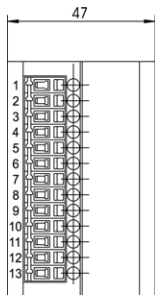


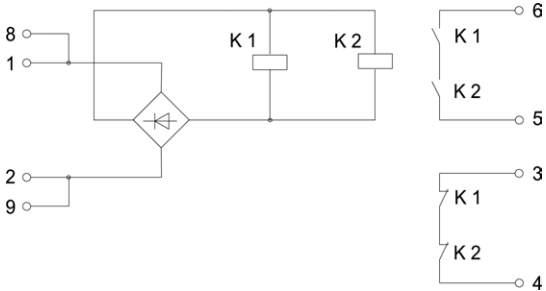
462 RE 012

462 RE 112

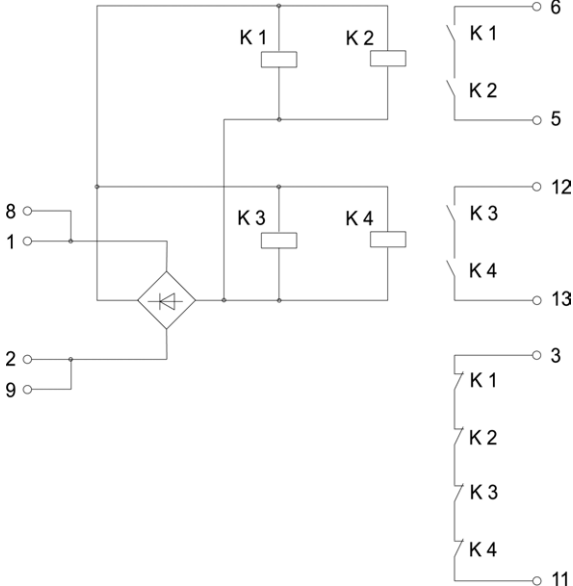
- (D)** Betriebsanleitung
Relaiseinheit
- (GB)** Operating instructions
Expander relay unit
- (F)** Notice d'utilisation
Relais d'extension
- (I)** Istruzioni d'impiego
Unità relè



462 RE 012



462 RE 112



1 Technical data

1.1 Terminal assignment

462 RE 012

Terminal	Assignment
1, 2, 8, 9	Supply voltage
3, 4	Test loop
5, 6	Output 1

462 RE 112

Terminal	Assignment
1, 2, 8, 9	Supply voltage
3, 11	Test loop
5, 6	Output 1
12, 13	Output 2

1.2 Type denomination/Variants

The following example and table are given to explain the type denomination of the expander relay units:

Example:

462 RE 112

4ab cd efg

Placeholder	Characteristic		Meaning
4ab	Housing type and housing width	462	Housing width 47 mm
cd	Version	RE	Expander relay unit
e	Number of outputs	0	1 output
		1	2 outputs
fg	Other		Insignificant

1.3 Electrical and mechanical data

The expander relay unit in a deenergized state is depicted on the circuit diagram of the fold-out page.

General

Supply voltage	24 V AC/DC \pm 10 %
Output 1	Contact maker, floating
Maximum switching voltage, output 1	250 V AC or 30 V DC
Maximum switching current, output 1	4 A
Maximum switching power, output 1	1000 VA or 120 W
Test loop	Contact breaker, floating
Maximum switching voltage, test loop	30 V AC/DC
Maximum switching current, test loop	2 A
Maximum switching power, test loop	60 VA or 60 W
Operating temperature	0 °C ... +55 °C
Storage and transportation temperature	-25 °C ... +85 °C
Vibration and shock resistance	Vibration: 10 ... 55 Hz, 1 mm Shock: 30 g / 11 ms Continuous shock: 10 g / 16 ms
International protection	IP 20
Housing	PA black

Models
462 RE 112

Output 2	Contact maker, floating
Maximum switching voltage, output 2	250 V AC or 30 V DC
Maximum switching current, output 2	4 A
Maximum switching power, output 2	1000 VA or 120 W

Power consumption

Type	Power consumption
462 RE 012	100 mA
462 RE 112	200 mA

Fuse for outputs

Output	Fuse
Output 1	4 A
Output 2	4 A

2 Appropriate use

The expander relay unit is intended for use exclusively to protect against hazards.

2.1 Norms and guidelines

The expander relay unit complies with the following European guidelines:

- 73/23/EEC (low voltage guideline)
- 89/336/EEC (EMC guideline)
- 98/37/EC (machinery guideline)

The expander relay unit underwent an EU prototype test at TÜV/IQSE in Munich, Germany.

The construction of the expander relay unit conforms to the norms listed below:

Norm	Content
EN 954-1/category 4	Safety of machines and parts of control systems
EN 292	Safety of machines, basic concepts
EN 60 204	Electrical equipment of industrial machines
VDE 0110, IEC 1010	Electrical safety
IEC 68, part 2	Effects of ambient influences
EN 61000-6-2	EMC interference immunity in industrial environments
EN 55011	Interference suppression of electrical equipment and systems
IEC 801	Electromagnetic compatibility

2.2 Safety/Dangers

General

- Ensure that the expander relay unit is only installed and put into operation by specially-trained authorised personnel.
- Ensure that the appropriate corresponding fuses (see Technical data) are used. Never bridge or repair fuses.
- Only operate the expander relay unit when it's in an undamaged condition.
- Ensure that the expander relay unit is only used for protection against dangers.
- Ensure that all safety requirements applying for the machine in question are observed.
- Ensure that all European guidelines and national laws/guidelines applying are observed.

3 Function

The expander relay unit is used to extend the number of safety outputs of a control unit. When the supply voltage is applied, the relays close. The relays open as soon as the supply voltage is switched off. The test loop of the expander relay unit checks that the relays are open before the supply voltage is applied.

4 Installation



Danger

► **Danger of electrocution!**

Ensure that the expander relay unit is only installed and put into operation by specially-trained authorised personnel.

- Snap the expander relay unit onto a mounting rail (DIN 50 022) in the switch cabinet.
The expander relay unit is attached.
- Connect expander relay unit, see Technical data.
- Ensure that the prescribed fuses are used, see Technical data.

To check the test loop:

- Connect the output of the test loop to the contactor input externally using a control unit.

5 Putting into operation



Danger

► **Danger of electrocution!**

Ensure that the expander relay unit is only installed and put into operation by specially-trained authorised personnel.

- Apply supply voltage.

The relays close.

6 Troubleshooting

If the expander relay unit shows any fault:

- Replace the complete expander relay unit.

7 Maintenance

7.1 Measures

The expander relay unit is maintenance-free.

7.2 Disposal

Dispose of used parts and unwanted packaging in accordance with the regulations of the country in which the device is installed.

Artikelnummer / Article Number / Référence / Codice articolo: 900559

Version / Version / Version / Versione: 1.0

Datum / Date / Date / Data: 20.09.2006

Seiten / Pages / Pages / Pagine: 28



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