



1 Safety regulations



More detailed information can be found in the Phoenix Contact catalog and the corresponding assembly instructions. These can be downloaded at phoenixcontact.net/products - search for the corresponding article.

- Installation, operation, and maintenance may only be carried out by qualified electricians. Follow the installation instructions as described. When installing and operating the device, the applicable regulations and safety directives (including national safety directives), as well as general technical regulations, must be observed. The technical data is provided in this packing slip and on the certificates (declaration of conformity, additional approvals where applicable).
- To protect the device against mechanical or electrical damage, install it in suitable housing with an appropriate degree of protection according to IEC 60529.
- When operating relay modules, comply with the requirements for noise emission for electrical and electronic equipment on the contact side.
- If there is a greater load and inductive load, implement a contact protection circuit (e.g. freewheeling diode, varistor, RC element) on the load. This prevents interference voltages being coupled to other system parts. The relays also contribute to a longer electrical service life.



NOTE: electrostatic discharge

Take protective measures against electrostatic discharge.

2 Short description

The assembled RIF-0-R... modules consist of the relay base RIF-0-B... without components and the pluggable relay (1). For this reason, the designation and order number of the assembled modules printed on the packaging is not identical to that on the relay base RIF-0-B....

3 Function elements (1)

- 1 Bridge shaft for FBS 2-6
- 2 Relay base RIF-0-B...
- 3 LED status indicator
- 4 Pluggable relay / solid-state relay
- 5 Optional equipment marking label
- 6 Snap-in lever for securing and ejecting the relay / solid-state relay
- 7 Inspection hole for measuring tip

4 Installation



WARNING: Danger to life by electric shock

Never perform work on the device when voltage is present.

4.1 Connection technology

UL requirement: Use copper wires that are - at minimum - approved for use above 75 °C.

- RIF-0-... modules with screw connection (2)
- RIF-0-... modules with push-in connection (3):

Insert solid or stranded conductors with ferrules and a cross section $\geq 0.34 \text{ mm}^2$ directly in the clamping space (A). You can secure stranded conductors without ferrule reliably by opening the spring beforehand with the pushbutton (B). Press the pushbutton (B) also to release the conductor.

4.2 Fixing to the DIN rail

Place an end bracket at the start and end of each RIF-0-... module strip. If subject to vibration, the DIN rail needs to be fixed at intervals of 10 cm.

An end bracket made of insulating material, such as CLIPFIX 35-5 VO (Order No. 3032350), must be used for the following purposes:

- For voltages greater than 250 V between identical terminal points of adjacent modules (L1, L2, L3)
- For safe isolation between neighboring modules

You can use any end bracket as a purely optical separation of function groups.

4.3 Bridging of voltage potentials (4)

Up to 50 RIF-0-... modules with the plug-in bridges FBS...-6 can be bridged (A2 and 11). Different RIF modules can be bridged on the input side with plug-in bridge FBS 2-6 (A2).

The bridges have to snap in completely.

5 Circuit diagrams

Relay assembly 1x changeover contact with DC input (5)

Relay assembly 1x N/O contact with DC input (6)

Solid-state relay assembly with DC output (7)

Solid-state relay assembly with AC output (8)

6 Technical data / approvals

UL, USA

CSA



85 °C: 250 V AC 6 A

250 V 6 A