Installation instructions for RIC, RAC & RBC installation contactors

Installation contactors are electromagnetic switching devices designed to reliably switch various types of electrical loads, such as lighting systems, heating, air conditioning, motors, or pumps. They have a rest position and can safely switch, conduct, and interrupt currents under normal operating conditions, as well as in overload situations. The double-break contacts interrupt the circuit at two points simultaneously, reducing contact wear, improving arc suppression during switching, and thus ensuring a particularly long service life.
Our installation contactors are equipped with two to four independent contacts, allowing you to switch different voltages at the same time.
The hum-free operation makes them suitable for low noise environments.

The installation contactors are designed for mounting on a TS35 DIN-Rail in accordance with DIN EN 60715. All installation contactors fit into an electrical distribution board with a front width of 45 mm (DIN 43880).

RIC Series

RIC installation contactors are versatile switching devices for use in all types of applications. In electronic systems, they ensure reliable, safe and efficient control of electrical devices.

RAC Series

RAC installation contactors are equipped with a manual control function and an integrated slide switch, providing users with three selectable operating modes, including disconnection. This feature supports functional testing during commissioning and simplifies maintenance, ensuring both ease and safety.

RBC Series

RBC installation contactors use a bistable coil to switch different electrical loads. They stay in their current position until triggered. A manual slide switch allows disconnection of the device from the control voltage for safe interventions.

1 Content

Figure 1: RIC, RAC & RBC Installation contactors

Installation instructions

1.1 Group mounting

If several contactors are installed next to each other, a gap shall be provided for better air circulation and heat dissipation. If operating multiple contactors per group simultaneously, sufficient ventilation must be provided inside the switch cabinet.

Examples of the maximum number of contactors that can be mounted side-by-side:

Operating ambient temperature up to 40 °C:
min. 9 mm air gap after every third RIC or RAC

Operating ambient temperature 40 ... 55 °C:
min. 9 mm air gap after every second RIC or RAC

Operating ambient temperature 55 ... 70 °C:
min. 9 mm air gap between every RIC or RAC

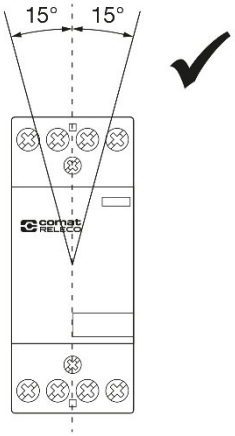
Note: bistable devices such as the RBC are not intended for being permanently energized. Therefore, heating is minimal and no extra ventilation gaps are necessary.

1.2 Orientation

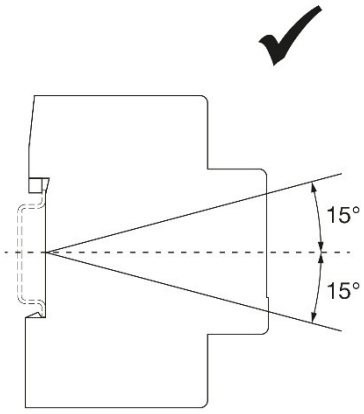
When installing contactors, make sure they are positioned upright so that their front and terminal labeling can be read normally.

If necessary, the device may also be tilted to either side or forwards/backwards within a tolerance of maximal ±15° from the central axes of the device. Larger angles are not permitted. In particular, the device must not be operated “on its side”, not “facing up or down” and not “on its head.”

Allowed Positions



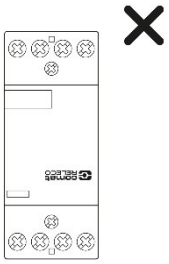
Front view, upright



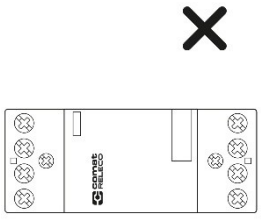
Side view

Prohibited positions

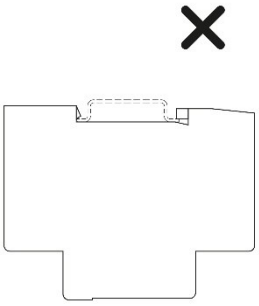
Note: The examples shown are not exhaustive. Tilting angles of more than 15° are not permitted as shown above.



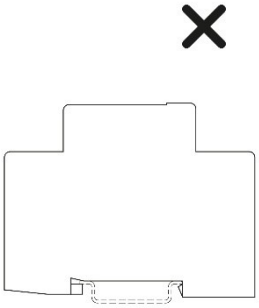
upside down



on the side



facing down



facing up

1.3 Electrical connections

Before operating the device, confirm all connections. Connect the contactor coil terminals (A1/A2) to a matching power supply and ensure that the contactor output terminals are properly connected.

In general, only one conductor may be connected per device terminal. This limitation ensures contact reliability and applies to all terminals (coil and output) and all models (contactors and auxiliary contacts). For connecting two conductors, we recommend using a twin wire ferrule.

When using a busbar in combination with RIC/RAC/RBC devices, we recommend crimping the ferrule to a quadratic cross-section for best electrical contact.

1.4 Auxiliary contacts (RxC-AUX)

4-pole RIC and RAC devices can be extended with an auxiliary module (RIC-AUX) which provides two additional contacts. The type designation follows the product key of the contactor, e.g. RIC-AUX20 features two normally open contacts.

Likewise, 4-pole RBC devices can be extended with an auxiliary module (RBC-AUX) adding two extra contacts. Additionally, a central control module (RBC-AUX-CM) and a group control module (RBC-AUX-GM) are available specifically for lighting or blind management.

Note: Auxiliary contacts are not compatible with 1- or 2-pole models (all 17.5 mm-wide RIC/RAC/RBC devices).

1.5 Switches and Indicators

RIC and RAC devices feature an indicator located on the top right of the front panel. A black indicator signifies that the contacts are deactivated (not energized), while a red indicator denotes activated contacts.

The RIC model does not include manual switches.

The RAC model incorporates a three-position slide switch:

- **Automatic (A):** standard contactor operation
- **Off (O):** The contactor is permanently deactivated. This mode should be used to ensure safety during maintenance procedures.
- **Impulse (I):** Moving the slide switch to position I engages the contacts; when the control voltage is applied, the switch automatically reverts to position A. This function is intended for use during commissioning.

The RBC device is equipped with a level indicator at the bottom left that displays the activation status of the contacts and operates as a switch. For safe maintenance, the blue switch on the coil can be set to **OFF** to permanently deactivate the contacts. The **ON** position enables normal function, allowing the coil to be energized.

Changes

This document is available in multiple languages. In the event of any discrepancies or ambiguities between translations, the English version serves as the authoritative reference.

Version	Changes	Release
001	First version	23.01.2026