SIEB & MEYER

036210050

Relay Card

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1 Relay card 036210050

The relay card 036210050 can be used with SIEB & MEYER drives (e.g. of series SD2), when potential-free output switch contacts are required.

Read the hardware documentation of your device and pay attention to the safety instructions.

1.1 Operating Instructions

For the use of the relay card pay attention to the following notes:

- The 24 V output signals of the drive are to be connected to the trip coils via connector X1 of the relay card.
- The relay and the drive must have a common switching ground. For this purpose connector X1/ pin 6 must be connected to the 24 V GND of the drive.
- The three switch contacts of all five relays are potential-free and available via the connectors X2 and X3.

NOTICE

Inductive or capacitive loads at relay contacts

Incorrect connection/load of the relay contacts, especially due to inductive or capacitive loads, can cause contact erosion and destroy the relays.

Consider the technical data of the relay contacts.

1.2 Dimensions

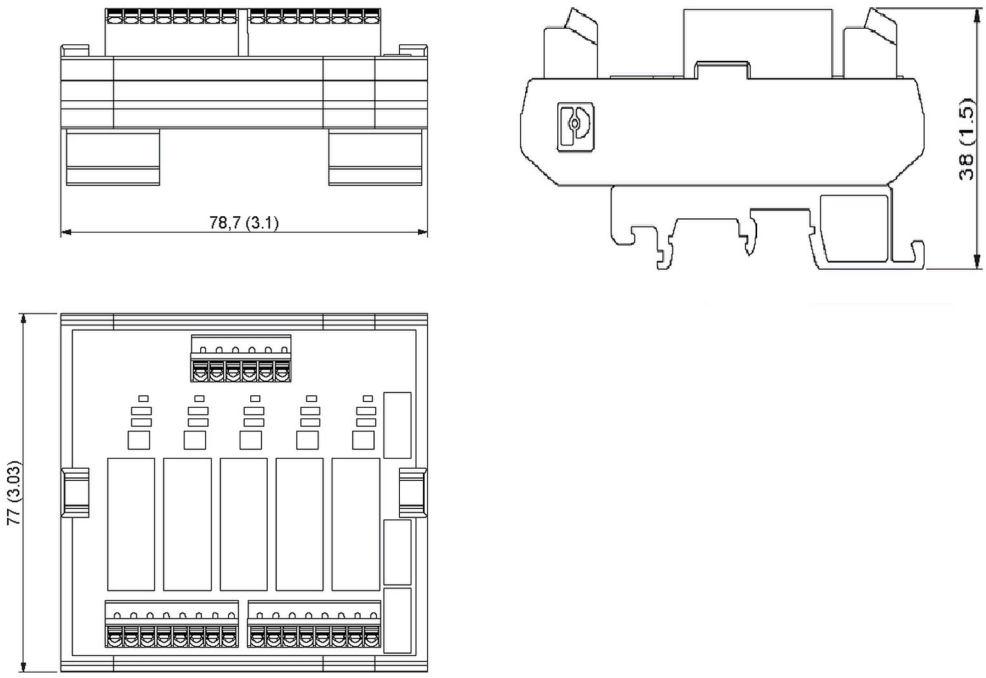


Fig. 1: Dimensions 036210050 in mm (inch)

The relay card 036210050 can be fastened to the following mounting rails:

- top hat rail: 35 mm × 7.5 mm
- G-type DIN rail: 32 mm × 15 mm

2 Connectors036210050

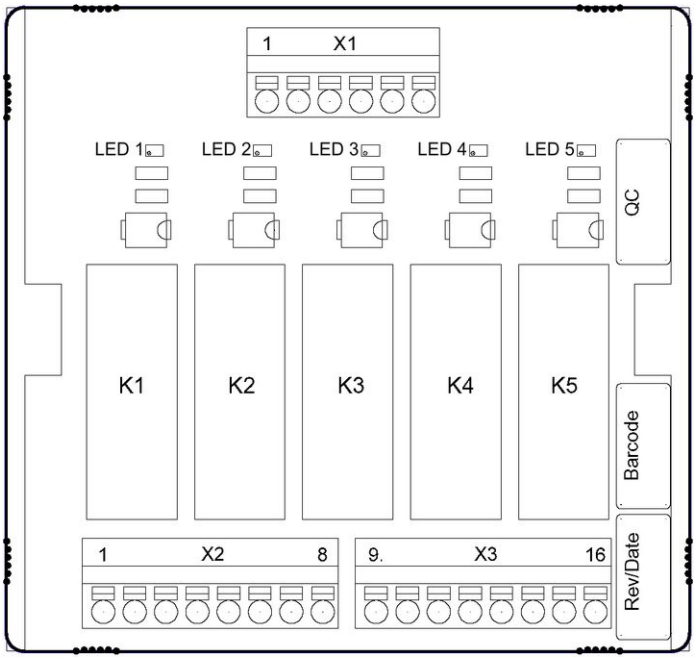
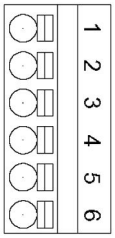


Fig. 2: Connectors on the relay card 036210050

2.1 X1 – Relay Connector

6-pole PCB terminal block (SPTA 1) by Phoenix with spring-cage connection, p. 8, suitable for connecting wires of max. 1 mm²

Terminal	Pin	I/O	Description
	1	I	Input 1, 24 V
	2	I	Input 2, 24 V
	3	I	Input 3, 24 V
	4	I	Input 4, 24 V
	5	I	Input 5, 24 V
	6	I/O	GND trip coils

The 24 V open emitter outputs of the drive are connected to the inputs 1 to 5.

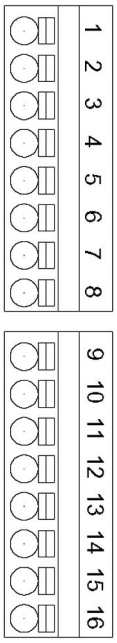
The LEDs 1 to 5 signal the energized trip coils.

Technical data of the trip coils:

- rated voltage = 24 V_{DC}
- rated power = 245 mW

2.2 X2, X3 – Relay Contacts

2 × 8-pole PCB terminal block (SPTA 1) by Phoenix with spring-cage connection, p. 8, suitable for connecting wires of max. 1 mm²

Terminals	Pin	Name	Description
	1	CO contact relay 1	Common contact relay 1
	2	NC contact relay 1	Active: contact open
	3	NO contact relay 1	Active: contact closed
	4	CO contact relay 2	Common contact relay 2
	5	NC contact relay 2	Active: contact open
	6	NO contact relay 2	Active: contact closed
	7	CO contact relay 3	Common contact relay 3
	8	NC contact relay 3	Active: contact open
	9	NO contact relay 3	Active: contact closed
	10	CO contact relay 4	Common contact relay 4
	11	NC contact relay 4	Active: contact open
	12	NO contact relay 4	Active: contact closed
	13	CO contact relay 5	Common contact relay 5
	14	N/C contact relay 5	Active: contact open
	15	N/O contact relay 5	Active: contact closed
	16	n.c.	not connected

Technical data of the relay contacts:

- rated current = 8 A
- rated voltage / max. switching voltage = 250 V_{AC} / 400 V_{AC}

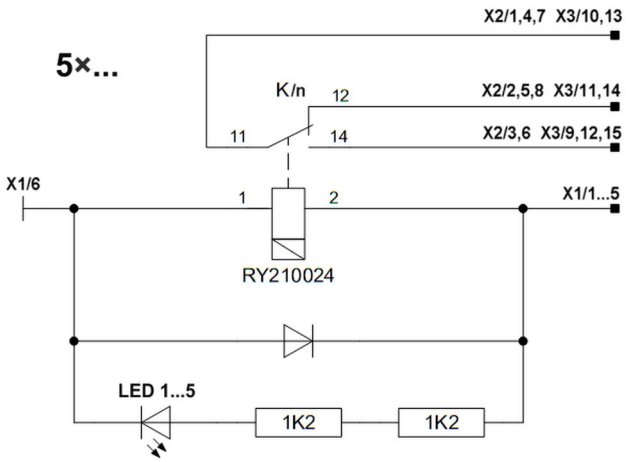
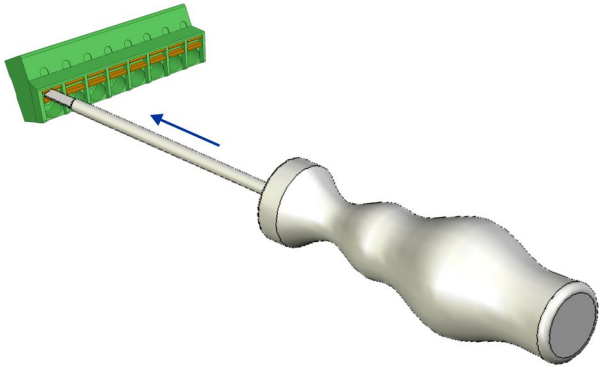


Fig. 3: Relay circuit with connector/pin assignment

2.3 Spring-cage Connection

The individual conductors are fixed in the terminal by means of spring-cage connection. In order to plug and unplug a conductor proceed as follows:

- Push a screwdriver into the designated groove above the chamber to operate the spring-cage connection as shown in the figure.



- Put the conductor into the chamber / remove the conductor from the chamber.
- Release the screwdriver.

Solid wires or conductors with ferrules can be put directly into the chamber without the help of a screwdriver.

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