



Installation contactors Type ESB..

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Installation contactors

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Application

Automation processes in building wiring and installation can be implemented with installation contactors. They are used chiefly for switching and controlling lighting systems, heating systems, ventilation systems, pumps, heating pumps and other building automation actuators. Geräte für Schalttafeleinbau auf Tragschienen (35 mm) nach DIN EN 50 022

Installation depth: System 68 mm
Installation width: 1, 2 and 3 modules (1 module = 17.5 ... 18 mm)
Colour: grey, RAL 7035

suitable for the STOTZ system proM

Advantages

- hum-free solenoid drive
- low-noise switching
- switching position indicator
- integrated coil protective circuit
- attachable auxiliary switch
- overvoltage protection for the solenoid coil up to 5 kV
- high making/breaking capacity and long service life
- quick fastening with latching slide
- large connections with open box terminals
- shock-hazard protection to VDE 0106, Part 100

Construction

Type ESB 20 operates with an AC solenoid system. Types ESB 24, 40 and 63 feature a DC solenoid actuator and are thus hum-free. The noise during switching on is hardly audible compared with an AC solenoid. An integrated diode jumper allows connection to AC voltage. The incorporated varistor protects the coil against remote lightning strikes and overvoltages of up to 5 kV. In addition, it limits the interference voltage peaks of the solenoid system. The contactors can therefore be combined with programmable logic controllers. There is no need for a coil protective circuit. The solenoid system is provided with radio interference suppression.

Overvoltage peaks may cause a current of max. 200 A resp. an energy of max. 4 J or $10^6 \times$ a current of 5 A resp. an energy of max. 0.05 J with normal wave (8/20 μ s).

All switching elements of the contactors can be used as main contact elements or as auxiliary contact elements (see also technical data). The contacts are not positively driven, and NO and NC contacts can therefore overlap.

On Types ESB 24, 40 and 63, a two-pole auxiliary switch, Type EH 04 (1/2 module width) can be attached. This auxiliary switch must be used for switching control signals.

Contactors ESB 20, 24 and 40 are also available as "EN" devices with integrated manual switch, e.g. for "day/night" application. Data sheet on request.