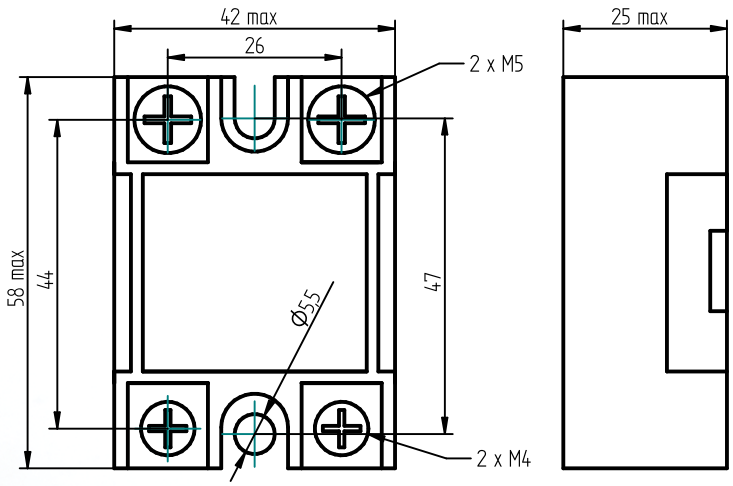
# SSR

# Solid State Relays




Load Voltage: **38 - 480V AC**
Control Voltage: **3 - 32V DC**
Max current: **10 - 40A**

**Features:**

- **Very high durability:** designed for operation under intensive use without loss of technical performance.
- **Wide control voltage range:** full logic compatibility with low-voltage signals used in OEM systems (from 3–5 VDC) and the industrial PLC automation standard (24 VDC).
- **Universal load voltage range:** safe and stable operation across a wide range of mains voltages, suitable for standard single-phase loads.
- **Completely silent operation:** no clicking noise typical of traditional contactors and electromagnetic relays.
- **Low control current consumption:** allows direct power supply from the transistor outputs of PLC controllers without the need for intermediate relays.
- **Built-in optoisolation:** high galvanic isolation between the low-voltage control circuit and the power circuit protects the control electronics against voltage surges from the mains side.

**Description:**

SSR (Solid State Relay) relays are used for contactless switching of electrical loads by means of a control signal. The absence of mechanical switching components ensures fast and silent operation as well as high durability, particularly in applications requiring frequent switching.

| Art. No. | Type | Current [A] | Load Voltage [VAC] | Control Voltage [VDC] | Weight [kg] |
|---|---|---|---|---|---|
| **17000-2420** | SSR-10-ZC1H2 BR | 10 | 38-480 | 3-32 | 0,08 |
| **17000-2421** | SSR-25-ZC1H2 BR | 25 | 38-480 | 3-32 | 0,08 |
| **17000-2422** | SSR-40-ZC1H2 BR | 40 | 38-480 | 3-32 | 0,08 |

**Applications:**

- **Heating systems and temperature control:** injection molding machines, heat-sealing machines, industrial furnaces, and any installations requiring frequent switching of heating elements on and off.
- **Industrial automation:** direct control of actuators, solenoid valves, and other actuating components from the transistor outputs of PLC controllers.
- **Packaging and food-service equipment:** packaging machines, dosing equipment, and food-service ovens operating in continuous mode.

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Due to the constant development of the construction and changes in technical requirements, Breve Tufvassons reserves the right to change the above parameters.