

# SIEMENS

FOR INDUSTRY AND MECHANICAL ENGINEERING

# SENTRON 5SY miniature circuit breakers

SENTRON 5SY miniature circuit breakers offer effective protection against the consequences of short circuit and overload. In doing so, they not only comply with the product standard IEC/EN 60898-1 but are also approved according to EN 60947-2 and UL 1077.

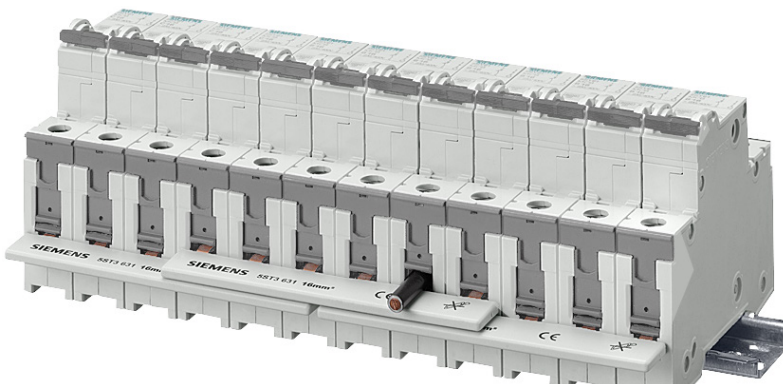
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# Safe short circuit and overload protection for industrial applications

5SY miniature circuit breakers effectively protect, for example, circuits of air conditioning and ventilation systems, control cabinets and controllers from the consequences of short circuit and overload. Additional application examples are charging stations for electric vehicles, auxiliary circuits of wind turbines, components of photovoltaic systems or distribution boards on construction sites.

5SY miniature circuit breakers are available in 1-, 2-, 3-, 4- as well as 1+N- and 3+N-pole versions and are designed for rated currents from 0.3 to 80 A at rated switching capacities of 6, 10 and 15 kA.



Simple assembly and disassembly from the connection with busbars.

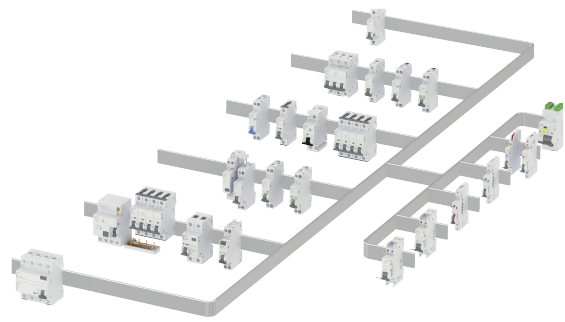
## Miniature circuit breakers for comprehensive application areas

The 5SY4, 5SY5 and 5SY7 variants meet the requirements for vibration and shock resistance in accordance with DIN EN 61373 and DIN EN 50155 "1B", which means they are suitable for use in railway applications.



Use in residential building installations is covered via the tripping characteristic B. For applications with high inrush currents, the tripping characteristic C is used, whereas the tripping characteristic D protects pulse-generating equipment. The protection of semiconductors is safeguarded via the tripping characteristic A by 5SY4 and 5SY6 miniature circuit breakers.

Typical area of application of the 5SY:  
Industrial control cabinet



SENTORN circuit protection devices platform concept. Standardized accessories for the complete portfolio.

### Compact devices, easy installation, high availability of equipment

5SY miniature circuit breakers are economical in procurement and operation and can be expanded in a variety of ways with additional components from Siemens. As compact, DIN-approved devices, they can be installed in any commercially available distribution board. Via the combination with an auxiliary switch or fault signal contact, the operator can very easily judge the status of the switch directly on the devices or remotely. Without tools, they can be easily and quickly snapped onto a standard mounting rail and detached again. Due to identical terminals, the infeed to the 5SY miniature circuit breakers can be optionally from the top or the bottom. Once the cause of the overload has been remedied, the switches can be simply switched on again. This shortens repair times and increases system availability.

5SY4, 5SY6 and 5SY7 miniature circuit breakers are approved according to IEC/EN 60898-1 for operation in Germany, Italy, Russia, the United States and Canada, as well as in China. The 5SY8 miniature circuit breaker is rated for operation in Russia, the United States and Canada.

### Highlights at a glance:

- Available in 1-, 2-, 3-, 4-, as well as in 1+N and 3+N-pole versions.
- Different versions with rated switching capacity of 6, 10 and 15 kA.
- Designed for applications with rated currents from 0.3 A to 80 A.
- With characteristics A, B, C and D, diverse uses: from residential building with high inrush currents and pulse-generating equipment, right down to protection of semiconductors.
- Compact design, easy mounting, infeed optionally either at the top or bottom through identical terminals.
- Double terminal chambers for connection of two wires of different cross-sections.
- Highly effective touch protection when grasping and mounting the latching slide with latch-down option.

Find more information on [siemens.com/mcb](https://www.siemens.com/mcb)

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