

SIEMENS



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5SY6 Supplementary Protectors

Siemens 5SY Supplementary Protectors are single and multi-pole thermal / magnetic overcurrent protection devices. These miniature circuit breakers are used to protect plants in buildings and infrastructures for industrial applications and can be used as main control switches for disconnecting or isolating plants. Integrated movable terminal covers located at the cable entries ensure the terminals are fully insulated when the screws are tightened. Manual quick-assembly

systems guarantee convenient, safe, time-saving assembly without requiring any tools. Siemens offers several additional components to the 5SY devices for increased flexibility. Additional components, such as auxiliary switches, faults signal contacts, shunt releases, under voltage releases enhance the miniature circuit breakers overall functionality.

5SY6 Supplementary Protectors

5SY devices are approved for worldwide use according to IEC standards for systems up to 250/440 V AC. 60 V DC per pole is permitted in DC systems. They are also UL Recognized (File No. E116386) in accordance with UL 1077, "Supplementary Protectors for Use in Electrical Equipment" up to 480Y/277 V AC and Certified to Canadian Standards (CSA 22.2 NO. 2352). They are provided with a manual means for opening the circuit and are not ambient compensated. For use in ship building, the devices also have numerous certifications according to shipping classifications; BV, DNV, GL and LRS.

5SY4 and 5SY6 devices are two product selections offered within the Siemens 5SY product family. They are both equipped with a delayed overload/time-dependent thermal release (thermal bimetal) for low overcurrents and with an instantaneous electromagnetic release for high overload and short-circuit currents. Both product selections offer 1, 1N, 2, 3, 3N, and 4 pole devices available from 0.3 to 80 Amps (depending on the device selected).

Benefits:

- Identical top and bottom terminals
- Clear and visible conductor connection in front of the busbar facilitates controls
- Large and easily accessible wiring space for the feeder terminals
- Integrated movable terminal covers located at the feeder cable input section
- The effective touch protection when grasping the device
- Manually operable quick-assembly and disassembly systems requires no use of tools
- Marked labeling field on all modular installation devices for uniform, quick and easy identification
- Quick and easy manual removal of MCBs from the busbar assembly if connections need to be changed

There are some noticeable differences between the 5SY4 and 5SY6 product selections. They are listed below.

	5SY4	5SY6
UL Standards	UL 1077 and CSA 22.2 NO.235 240 VAC: 7.5 kA 480 VAC: 5 kA (3 Phase)	UL 1077 and CSA 22.2 NO.235 240 VAC: 7.5 kA 480 VAC: 5 kA (3 Phase)
IEC/EN 60898-1	230 & 400 VAC: 10 kA	230 & 400 VAC: 6 kA
IEC/EN 60947-2	230 & 400 VAC: 35 kA	230 & 400 VAC: 30 kA
Dimensions	76 mm (l), 18 mm (w), 90 mm (h)	76 mm (l), 18 mm (w), 90 mm (h)
List Price	~ \$79 (1 Pole, 10A, C Curve)	~ \$68 (1 Pole, 10A, C Curve)

Siemens Industry, Inc.
5400 Triangle Parkway
Norcross, GA 30092

1-800-241-4453
info.us@siemens.com

usa.siemens.com/5SY

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