

# Compact personal and fire protection

Modern electrical devices and the rising number of communication and multimedia devices lead to a higher current loading in the electrical installation of buildings – in new buildings as well as in the modernization of existing buildings. In case of faults, there is above all the danger of electric fires, in addition to electric shock or the destruction of electrical systems. With SENTRON components, Siemens offers secure protection in electrical installations.

## Highlights

- 50% space saving
- Easy retrofitting
- Increased system availability
- New busbar concept
- 1000 V ISO testing without removing conductors

## 5SV6 AFDDs with integrated MCB in only 1 MW

Arc fault detection devices detect serial and parallel arcing faults and provide protection from electrical fires. According to DIN VDE 0100-420, they are mandated for use in many areas of application.

Thanks to the width identical to the MCB, the 5SV6 AFDD with integrated MCB is not only easily installable in new buildings, it also features straight-forward retrofitting in existing buildings. This provides an enhanced protection function without additional space requirement. The standards-compliant extension of the electrical installation for protection against electrical fires is thus quickly possible at any time.

## 5SV1 electromechanic RCBO in only 1 MW

Residual current circuit breakers with overload protection combine residual current detection, short circuit and overcurrent protection in one device, thus enabling combined electric-shock and line protection. The protection devices enhance reliable operation and system availability, simplifying planning.

The new 5SV1 is the first electromechanic (voltage independent) RCBO on the IEC market in only one modular width. In combination with the 5SM6 AFD unit, preventive fire protection is thus possible in a total of only 2 modular widths.



5SV6 AFDDs with integrated MCB in only 1 MW



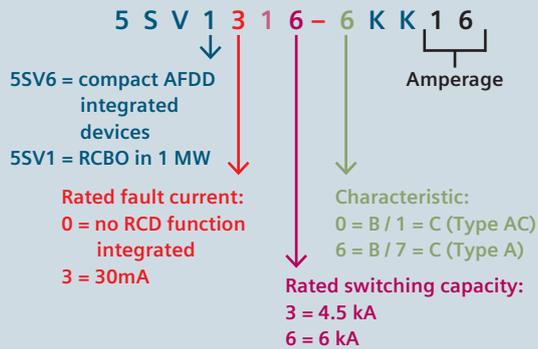
5SV1 RCBO with voltage independent RCD function in only 1 MW

## Order information

### 5SV6 AFDDs with integrated MCB 6kA in only 1MW

Rated current	B characteristic	C characteristic	
	6 A	5SV6016-6KK06	5SV6016-7KK06
	10 A	5SV6016-6KK10	5SV6016-7KK10
	13 A	5SV6016-6KK13	5SV6016-7KK13
	16 A	5SV6016-6KK16	5SV6016-7KK16
	20 A	5SV6016-6KK20	5SV6016-7KK20
	25 A	5SV6016-6KK25	5SV6016-7KK25
	32 A	5SV6016-6KK32	5SV6016-7KK32

The following structure applies to the order numbers:



### 5SV1 RCBO Overview 4.5 kA in only 1MW

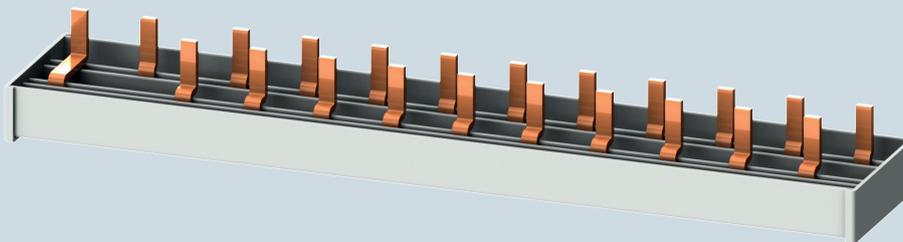
Rated current	B-Char		C-Char	
	Type A, 30mA	Type A, 30mA	Type AC, 30mA	Type AC, 30mA
	2 A		5SV1313-7KK02	5SV1313-1KK02
	4 A		5SV1313-7KK04	5SV1313-1KK04
	6 A	5SV1313-6KK06	5SV1313-7KK06	5SV1313-1KK06
	10 A	5SV1313-6KK10	5SV1313-7KK10	5SV1313-1KK10
	13 A	5SV1313-6KK13	5SV1313-7KK13	5SV1313-1KK13
	16 A	5SV1313-6KK16	5SV1313-7KK16	5SV1313-1KK16

### 5SV1 RCBO Overview 6 kA in only 1MW

Rated current	B-Char		C-Char	
	Type A, 30mA	Type A, 30mA	Type AC, 30mA	Type AC, 30mA
2 A		5SV1316-7KK02		5SV1316-1KK02
4 A		5SV1316-7KK04		5SV1316-1KK04
6 A	5SV1316-6KK06	5SV1316-7KK06	5SV1316-0KK06	5SV1316-1KK06
10 A	5SV1316-6KK10	5SV1316-7KK10	5SV1316-0KK10	5SV1316-1KK10
13 A	5SV1316-6KK13	5SV1316-7KK13	5SV1316-0KK13	5SV1316-1KK13
16 A	5SV1316-6KK16	5SV1316-7KK16	5SV1316-0KK16	5SV1316-1KK16

### Pin busbar

Order number		Order number	
5ST3673-0	10 mm <sup>2</sup> , 3P+N 12x Compact* 12MW	5ST3773-0	10 mm <sup>2</sup> , 3P+N Compact* 1000 mm
5ST3674-0	10 mm <sup>2</sup> , 1P+N 12x Compact* 12 MW	5ST3774-0	10mm <sup>2</sup> , 1P+N Compact* 1000 mm
5ST3675-0	10 mm <sup>2</sup> , 3P+N 6x AFD + 6x Compact* 12MW	5ST3775-0	10 mm <sup>2</sup> , 3P+N AFD + Compact* 1000 mm
5ST3676-0	10 mm <sup>2</sup> , 1P+N 6x AFD + 6x Compact* 12 MW	5ST3776-0	10 mm <sup>2</sup> , 1P+N AFD + Compact* 1000 mm
5ST3783-0	10 mm <sup>2</sup> , 1 x RCCB 3P+N + 8x Compact* 12 MW	5ST3783-OKL (N left)	10 mm <sup>2</sup> , 1 x RCCB 3P+N + 8x Compact* 12 MW
5ST3784-0	10 mm <sup>2</sup> , 1 x RCCB 1P+N + 10x Compact* 12 MW	5ST3784-OKL (N left)	10 mm <sup>2</sup> , 1 x RCCB 1P+N + 10x Compact* 12 MW
5ST3777-0	10 mm <sup>2</sup> , 3P+N Compact* + AS 1000 mm	5ST3778-0	10 mm <sup>2</sup> , 1P+N Compact* + AS 1000 mm
5ST3780-0	10 mm <sup>2</sup> , 1P+N AFD + Compact* + AS 1000 mm	5ST3685-0	10 mm <sup>2</sup> , 1 x RCCB 1P+N + 5x AFD + Compact* 12MW
5ST3788-0	End cap for listed busbar that can be cut to length		



\* Compact = 5SV1 / 5SV6 / 5S..0 compact devices

Note: All 5ST37.. busbars can be cut to length.

All devices and busbars listed here are expected to be deliverable from November 2018