

Heavy Duty Circuit Breakers S500

DC circuit protection: S500UC-B, S500UC-K

General

The S500UC Heavy Duty Circuit Breaker is intended for DC applications such as railway systems, electroplating and DC networks.

Voltages up to 250 VDC per pole can be switched with time constants of ≤ 15 ms.

Higher voltages (up to 750 VDC + 20 %) are switched by series connection (polarity-independent), see page 25.

Major features

- High rated operating voltage up to 750 VDC
- High rated breaking capacity 30 kA (250 VDC, 500 VDC, 750 VDC)
- Independent polarity connection
- Fixed and adjustable versions
- Compact dimensions, DIN cap size
- Clear contact position indication for all poles
- Wide range of accessories

Order data

DC circuit protection

Characteristic **B**

Rated Current (A)	Type 1-pole	Module (25 mm)	Type 2-pole	Module (25 mm)	Type 3-pole	Module (25 mm)	Type 4-pole	Module (25 mm)
6	S501UC-B6	1	S502UC-B6	2	S503UC-B6	3	S504UC-B6	4
10	S501UC-B10	1	S502UC-B10	2	S503UC-B10	3	S504UC-B10	4
13	S501UC-B13	1	S502UC-B13	2	S503UC-B13	3	S504UC-B13	4
16	S501UC-B16	1	S502UC-B16	2	S503UC-B16	3	S504UC-B16	4
20	S501UC-B20	1	S502UC-B20	2	S503UC-B20	3	S504UC-B20	4
25	S501UC-B25	1	S502UC-B25	2	S503UC-B25	3	S504UC-B25	4
32	S501UC-B32	1	S502UC-B32	2	S503UC-B32	3	S504UC-B32	4
40	S501UC-B40	1	S502UC-B40	2	S503UC-B40	3	S504UC-B40	4
50	S501UC-B50	1	S502UC-B50	2	S503UC-B50	3	S504UC-B50	4
63	S501UC-B63	1	S502UC-B63	2	S503UC-B63	3	S504UC-B63	4

Characteristic **K**

Range of adjustment (A)	Type 1-pole	Module (25 mm)	Type 2-pole	Module (25 mm)	Type 3-pole	Module (25 mm)	Type 4-pole	Module (25 mm)
0.1 - 0.15	S501UC-K0.15	1	S502UC-K0.15	2	S503UC-K0.15	3	S504UC-K0.15	4
0.14 - 0.21	S501UC-K0.21	1	S502UC-K0.21	2	S503UC-K0.21	3	S504UC-K0.21	4
0.2 - 0.3	S501UC-K0.3	1	S502UC-K0.3	2	S503UC-K0.3	3	S504UC-K0.3	4
0.28 - 0.42	S501UC-K0.42	1	S502UC-K0.42	2	S503UC-K0.42	3	S504UC-K0.42	4
0.38 - 0.58	S501UC-K0.58	1	S502UC-K0.58	2	S503UC-K0.58	3	S504UC-K0.58	4
0.53 - 0.8	S501UC-K0.8	1	S502UC-K0.8	2	S503UC-K0.8	3	S504UC-K0.8	4
0.73 - 1.1	S501UC-K1.1	1	S502UC-K1.1	2	S503UC-K1.1	3	S504UC-K1.1	4
1 - 1.5	S501UC-K1.5	1	S502UC-K1.5	2	S503UC-K1.5	3	S504UC-K1.5	4
1.4 - 2.1	S501UC-K2.1	1	S502UC-K2.1	2	S503UC-K2.1	3	S504UC-K2.1	4
2 - 3	S501UC-K3	1	S502UC-K3	2	S503UC-K3	3	S504UC-K3	4
2.8 - 4.2	S501UC-K4.2	1	S502UC-K4.2	2	S503UC-K4.2	3	S504UC-K4.2	4
3.8 - 5.8	S501UC-K5.8	1	S502UC-K5.8	2	S503UC-K5.8	3	S504UC-K5.8	4
5.3 - 8	S501UC-K8	1	S502UC-K8	2	S503UC-K8	3	S504UC-K8	4
7.3 - 11	S501UC-K11	1	S502UC-K11	2	S503UC-K11	3	S504UC-K11	4
10 - 15	S501UC-K15	1	S502UC-K15	2	S503UC-K15	3	S504UC-K15	4
14 - 20	S501UC-K20	1	S502UC-K20	2	S503UC-K20	3	S504UC-K20	4
18 - 26	S501UC-K26	1	S502UC-K26	2	S503UC-K26	3	S504UC-K26	4
23 - 32	S501UC-K32	1	S502UC-K32	2	S503UC-K32	3	S504UC-K32	4
29 - 37	S501UC-K37	1	S502UC-K37	2	S503UC-K37	3	S504UC-K37	4
34 - 41	S501UC-K41	1	S502UC-K41	2	S503UC-K41	3	S504UC-K41	4
38 - 45	S501UC-K45	1	S502UC-K45	2	S503UC-K45	3	S504UC-K45	4

Module $\triangle$ width of a single pole device

On request

*Delivery lead time

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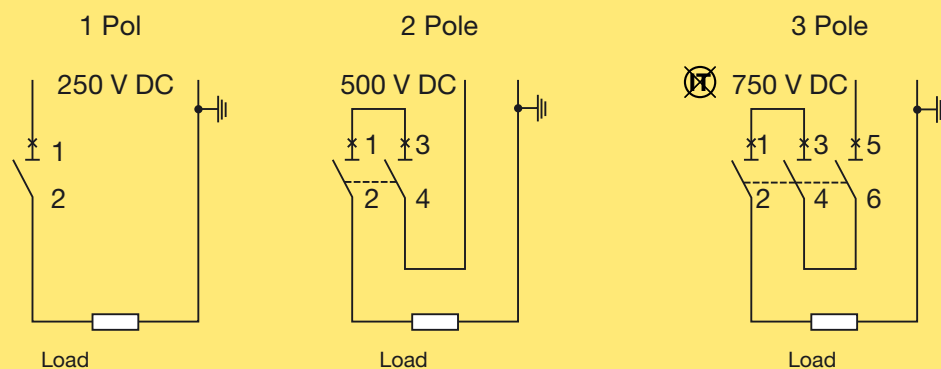
DC circuit protection: S500UC-B, S500UC-K

DC applications

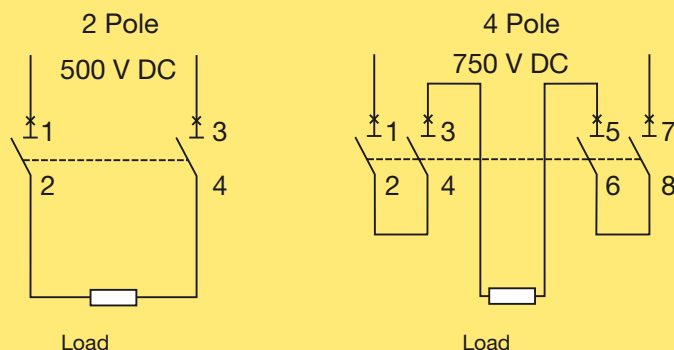
The product series S500UC-B (fixed rated current) and S500UC-K (adjustable rated current) are used in DC railway systems (locomotives, trams, underground railways etc.), DC motors, DC networks, solar installations, electroplating baths, emergency power supplies (UPS), lifts and elevators, door controllers and signalling.

Connection diagrams

Earthed network



Unearthed network



Z100040.eps