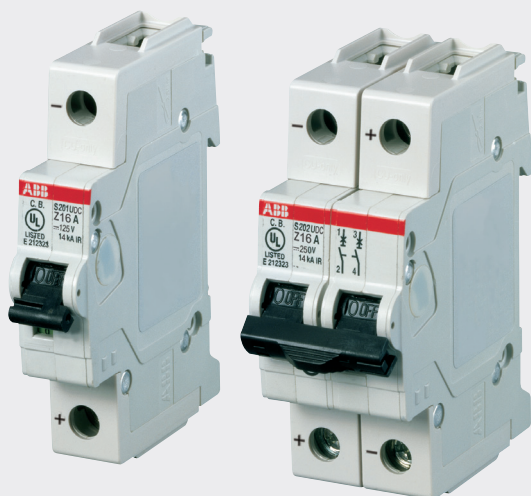


MINIATURE CIRCUIT BREAKERS

S 200 UDC series of System pro M compact®

DC Applications



The miniature circuit breakers (MCBs) of the S 200 UDC series provide state-of-the-art safety and comfort in any kinds of DC applications. Thanks to their high performance and compliance with relevant standards they present practical, easy-to-install solutions for the protection and control of electronic circuits against lower and long duration overloads and short-circuits.

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01 S 200 UDC series
MCBs in 1-pole and
2-pole version

Application

S 200 UDC MCBs can be used in the 1-pole version up to 125 V DC (>40 A up to 60 V DC), and in the 2-pole version with series connection of two poles up to 250 V DC (>40 A up to 125 V DC).

If voltages to earth exceeding 125 V DC (or 60 V DC for >40 A) occur, the 2-pole version of S 200 UDC is to be used for 1-pole disconnection.

During installation

For DC incoming supply from above S 200 UDC-... MCBs have, in the area of arc chutes, permanent magnets, it is therefore necessary to take into account the polarity during the installation process. Doing so ensures that in the case of a short circuit the magnetic field of the permanent magnets corresponds with the electromagnetic field of the short-circuit current, therefore safely leading the short circuit into the arc chute. Incorrect polarities may cause damage to the MCB. This is why – in the case of top-fed devices – terminal 1 must be connected to (-) and terminal to 3 (+).

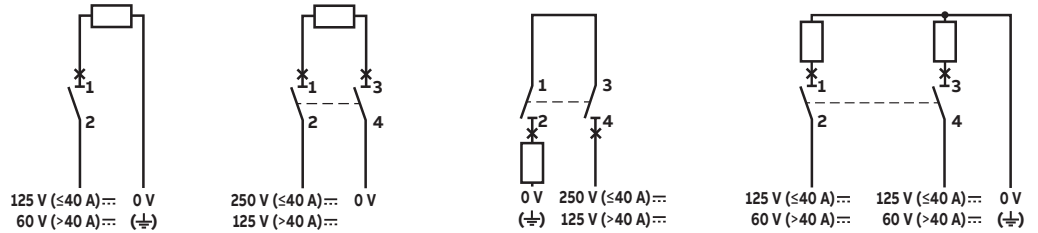
S 201 UDC, S202 UDC in K or Z characteristics from 1 to 63 A

Data acc. to UL / CSA

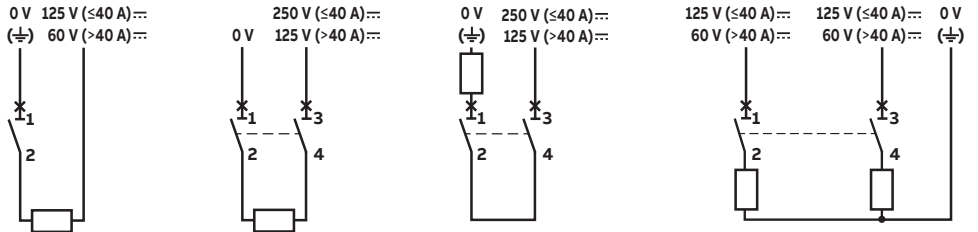
Rated voltage	1P: ≤ 40 A: 125 V DC; > 40 A: 60 V DC 2P: ≤ 40 A: 250 V DC; > 40 A: 125 V DC
Rated interrupting capacity acc. to UL 489	14 kA

Example for permissible voltages between the conductors depending on the number of poles and circuit layout

Voltage between conductors	U_n	125 V- (≤ 40 A) 60 V- (> 40 A)	250 V- (≤ 40 A) 125 V- (> 40 A)	250 V- (≤ 40 A) 125 V- (> 40 A)	250 V- (≤ 40 A) 125 V- (> 40 A)
Voltage between conductor and earth	U_n	125 V- (≤ 40 A) 60 V- (> 40 A)	125 V- (≤ 40 A) 60 V- (> 40 A)	250 V- (≤ 40 A) 125 V- (> 40 A)	125 V- (≤ 40 A) 60 V- (> 40 A)
MCB		1- pole	2- pole	2- pole	2- pole
Supply from bottom		S 201 UDC	S 202 UDC	S 202 UDC	S 202 UDC



Supply from top



Examples for different voltage levels between conductor and earth in the case of identical voltage between conductors

Voltage between conductors	U_n	250 V- (≤ 40 A) 125 V- (> 40 A) all-pole disconnection	250 V- (≤ 40 A) 125 V- (> 40 A) 1-pole disconnection
Voltage between conductor and earth	U_n	125 V- (≤ 40 A) 60 V- (> 40 A) circuit symmetrically earthed	250 V- (≤ 40 A) 125 V- (> 40 A) circuit unsymmetrically earthed
MCB		2- pole	2- pole
		S 202 UDC	S 202 UDC

