

MINIATURE CIRCUIT BREAKERS

SU 200 M series of System pro M compact® DC Applications



The miniature circuit breaker SU 200 M is ABB's solution for UL 489 branch circuit protection up to 480 Y/277 V AC and 96 V DC. This circuit breaker is an all-round device for AC and DC applications for universal use in North American and global markets due to its approvals acc. to the international standards UL, CSA and IEC. Moreover, SU 200 M is fully compatible with System pro M compact® UL 489 accessories.

—
01 SU 200 M series
MCBs in 1-pole and
2-pole version

Application

SU 200 M MCBs can be used in the 1-pole version up to 48 V DC, and in the 2-pole version with series connection of two poles up to 96 V DC.

If voltages to earth exceeding 48 V DC occur, the 2-pole version of SU 200 M is to be used for 1-pole disconnection.

During installation

During the installation process polarity does not need to be taken into consideration, the outgoing circuit may be implemented from above or below the device.

For voltage exceeding 48 V DC up to 96 V DC series connection of two poles is required.

SU 201 M, SU 202 M, SU 203 M, SU 204 M in C, K or Z characteristics from 0.2 to 63 A

Data acc. to UL / CSA

Rated voltage	1P: 277 V AC up to 40 A for C, Z char., 277 V AC up to 35 A for K char., 240 V AC
	2P, 3P, 4P: 480 Y / 277 V AC up to 40 A for C, Z char., 480 Y / 277 V AC up to 35 A for K char., 240 V AC
Rated interrupting capacity acc. to UL 489	1P: 48 V DC; 2P: 96 V DC (2p in series)
	10 kA

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

Voltage between conductors	U_n	48 V–	96 V–	96 V–	96 V–
Voltage between conductor and earth	U_n	48 V–	48 V–	96 V–	48 V–
MCB		1- pole	2-pole	2-pole	2-pole
Supply from bottom		SU 201 M	SU 202 M	SU 202 M	SU 202 M
Supply from top		0 V (PE) 48 V AC	0 V 96 V AC	0 V (PE) 96 V AC	48 V AC 48 V AC 0 V (PE)

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

Voltage between conductors	U_n	96 V– all-pole disconnection	96 V– 1-pole disconnection
Voltage between conductor and earth	U_n	48 V– circuit symmetrically earthed	96 V– circuit unsymmetrically earthed
MCB		2-pole	2-pole
		SU 202 M	SU 202 M