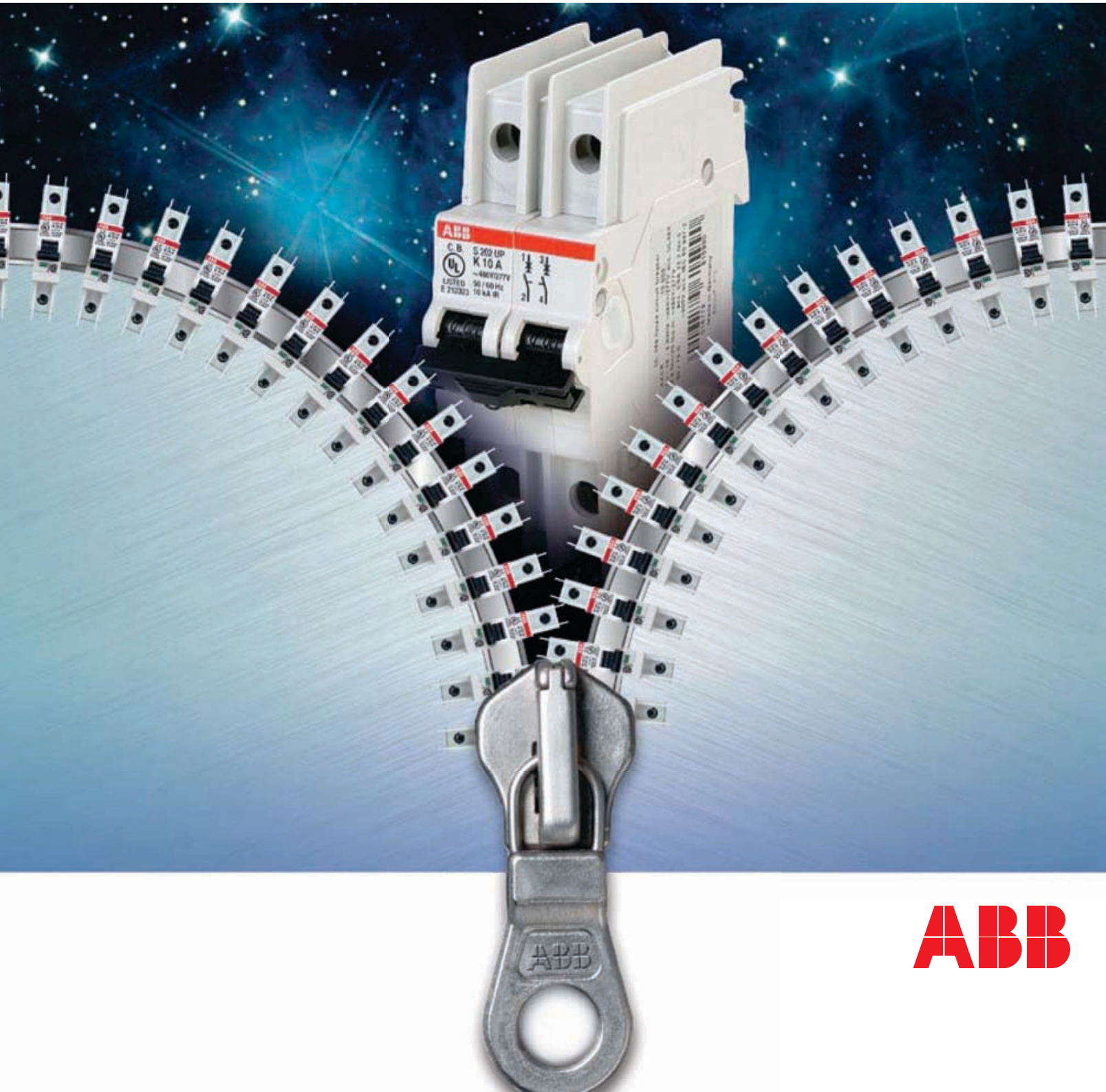


Miniature circuit breakers

Circuit protection guide



ABB

S204U-K20 – S502UC-K45

Alphanumeric

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S204U-K20	2	S281-K2W	22	S282UC-K3	23	S283UC-Z50	24	S501UC-B40	15.69
S204U-K25	2	S281-K32W	22	S282UC-K32	23	S283UC-Z6	24	S501UC-B50	15.69
S204U-K3	2	S281-K3W	22	S282UC-K4	23	S283UC-Z63	24	S501UC-B6	15.69
S204U-K30	2	S281-K40W	22	S282UC-K40	23	S283UC-Z8	24	S501UC-B63	15.69
S204U-K32	2	S281-K4W	22	S282UC-K50	23	S290-A1	27	S501UC-K0.15	15.70
S204U-K4	2	S281-K50W	22	S282UC-K6	23	S290-A2	27	S501UC-K0.21	15.70
S204U-K40	2	S281-K63W	22	S282UC-K63	23	S290-H11	27	S501UC-K0.3	15.70
S204U-K5	2	S281-K6W	22	S282UC-K8	23	S290-S	27	S501UC-K0.42	15.70
S204U-K50	2	S281-K8W	22	S282UC-Z0.5	24	S291-C100	25	S501UC-K0.58	15.70
S204U-K6	2	S281UC-K0,2	23	S282UC-Z1	24	S291-C125	25	S501UC-K0.8	15.70
S204U-K60	2	S281UC-K0,3	23	S282UC-Z1.6	24	S291-C80	25	S501UC-K1.1	15.70
S204U-K63	2	S281UC-K0,5	23	S282UC-Z10	24	S292-C100	25	S501UC-K1.5	15.70
S204U-K8	2	S281UC-K0,75	23	S282UC-Z16	24	S292-C125	25	S501UC-K11	15.70
S204UP-K0.2	4	S281UC-K1	23	S282UC-Z2	24	S292-C80	25	S501UC-K15	15.70
S204UP-K0.3	4	S281UC-K1,6	23	S282UC-Z20	24	S293-C100	25	S501UC-K2.1	15.70
S204UP-K0.5	4	S281UC-K10	23	S282UC-Z25	24	S293-C125	25	S501UC-K20	15.70
S204UP-K0.75	4	S281UC-K16	23	S282UC-Z3	24	S293-C80	25	S501UC-K26	15.70
S204UP-K1	4	S281UC-K2	23	S282UC-Z32	24	S294-C100	25	S501UC-K3	15.70
S204UP-K1.6	4	S281UC-K20	23	S282UC-Z4	24	S294-C125	25	S501UC-K32	15.70
S204UP-K10	4	S281UC-K25	23	S282UC-Z40	24	S294-C80	25	S501UC-K37	15.70
S204UP-K15	4	S281UC-K3	23	S282UC-Z50	24	S2C-A1	26	S501UC-K4.2	15.70
S204UP-K16	4	S281UC-K32	23	S282UC-Z6	24	S2C-A1U	7	S501UC-K41	15.70
S204UP-K2	4	S281UC-K4	23	S282UC-Z63	24	S2C-A2	26	S501UC-K45	15.70
S204UP-K20	4	S281UC-K40	23	S282UC-Z8	24	S2C-A2U	7	S501UC-K5.8	15.70
S204UP-K25	4	S281UC-K50	23	S283-K0.2W	22	S2C-DH	7	S501UC-K8	15.70
S204UP-K3	4	S281UC-K6	23	S283-K0.3W	22	S2C-H6R	26	S502-K0.15	15.68
S204UP-K4	4	S281UC-K63	23	S283-K0.5W	22	S2C-H6RU	7	S502-K0.21	15.68
S204UP-K5	4	S281UC-K8	23	S283-K0.75W	22	S2C-S/H6R	26	S502-K0.3	15.68
S204UP-K6	4	S281UC-Z0.5	24	S283-K1,6W	22	S2C-S6RU	7	S502-K0.42	15.68
S204UP-K8	4	S281UC-Z1	24	S283-K10W	22	S2C-UA 110	26	S502-K0.58	15.68
S204UP-Z0.5	5	S281UC-Z1.6	24	S283-K13W	22	S2C-UA 12	26	S502-K0.8	15.68
S204UP-Z1	5	S281UC-Z10	24	S283-K16W	22	S2C-UA 230	26	S502-K1.1	15.68
S204UP-Z1.6	5	S281UC-Z16	24	S283-K1W	22	S2C-UA 24	26	S502-K1.5	15.68
S204UP-Z10	5	S281UC-Z2	24	S283-K20W	22	S2C-UA 400	26	S502-K11	15.68
S204UP-Z15	5	S281UC-Z20	24	S283-K25W	22	S2C-UA 48	26	S502-K15	15.68
S204UP-Z16	5	S281UC-Z25	24	S283-K2W	22	S500-BB23	15.71	S502-K2.1	15.68
S204UP-Z2	5	S281UC-Z3	24	S283-K32W	22	S500-BB33	15.71	S502-K20	15.68
S204UP-Z20	5	S281UC-Z32	24	S283-K3W	22	S500-BB43	15.71	S502-K26	15.68
S204UP-Z25	5	S281UC-Z4	24	S283-K40W	22	S500-BB53	15.71	S502-K3	15.68
S204UP-Z3	5	S281UC-Z40	24	S283-K4W	22	S500-BB63	15.71	S502-K32	15.68
S204UP-Z4	5	S281UC-Z50	24	S283-K50W	22	S500-H02	15.71	S502-K37	15.68
S204UP-Z5	5	S281UC-Z6	24	S283-K63W	22	S500-H11	15.71	S502-K4.2	15.68
S204UP-Z6	5	S281UC-Z63	24	S283-K6W	22	S500-H20	15.71	S502-K41	15.68
S204UP-Z8	5	S281UC-Z8	24	S283-K8W	22	S500-K2	15.71	S502-K45	15.68
S204U-Z0.5	3	S282-K0.2W	22	S283UC-K0.2	23	S500-RD3	15.71	S502-K5.8	15.68
S204U-Z1	3	S282-K0.3W	22	S283UC-K0.3	23	S500-S02	15.71	S502-K8	15.68
S204U-Z1.6	3	S282-K0.5W	22	S283UC-K0.5	23	S500-S11	15.71	S502UC-B10	15.69
S204U-Z10	3	S282-K0.75W	22	S283UC-K0.75	23	S500-S20	15.71	S502UC-B13	15.69
S204U-Z15	3	S282-K1,6W	22	S283UC-K1	23	S501-K0.15	15.68	S502UC-B16	15.69
S204U-Z16	3	S282-K10W	22	S283UC-K1.6	23	S501-K0.21	15.68	S502UC-B20	15.69
S204U-Z2	3	S282-K13W	22	S283UC-K10	23	S501-K0.3	15.68	S502UC-B25	15.69
S204U-Z20	3	S282-K16W	22	S283UC-K16	23	S501-K0.42	15.68	S502UC-B32	15.69
S204U-Z25	3	S282-K1W	22	S283UC-K2	23	S501-K0.58	15.68	S502UC-B40	15.69
S204U-Z3	3	S282-K20W	22	S283UC-K20	23	S501-K0.8	15.68	S502UC-B50	15.69
S204U-Z30	3	S282-K25W	22	S283UC-K25	23	S501-K1.1	15.68	S502UC-B6	15.69
S204U-Z32	3	S282-K2W	22	S283UC-K3	23	S501-K1.5	15.68	S502UC-B63	15.69
S204U-Z4	3	S282-K32W	22	S283UC-K32	23	S501-K11	15.68	S502UC-K0.15	15.70
S204U-Z40	3	S282-K3W	22	S283UC-K4	23	S501-K15	15.68	S502UC-K0.21	15.70
S204U-Z5	3	S282-K40W	22	S283UC-K40	23	S501-K2.1	15.68	S502UC-K0.3	15.70
S204U-Z50	3	S282-K4W	22	S283UC-K50	23	S501-K20	15.68	S502UC-K0.42	15.70
S204U-Z6	3	S282-K50W	22	S283UC-K6	23	S501-K26	15.68	S502UC-K0.58	15.70
S204U-Z60	3	S282-K63W	22	S283UC-K63	23	S501-K3	15.68	S502UC-K0.8	15.70
S204U-Z63	3	S282-K6W	22	S283UC-K8	23	S501-K32	15.68	S502UC-K1.1	15.70
S204U-Z8	3	S282-K8W	22	S283UC-Z0.5	24	S501-K37	15.68	S502UC-K1.5	15.70
S281-K0.2W	22	S282UC-K0,2	23	S282UC-Z1	24	S501-K4.2	15.68	S502UC-K11	15.70
S281-K0.3W	22	S282UC-K0,3	23	S282UC-Z1.6	24	S501-K41	15.68	S502UC-K15	15.70
S281-K0.5W	22	S282UC-K0,5	23	S282UC-Z10	24	S501-K45	15.68	S502UC-K2.1	15.70
S281-K0.75W	22	S282UC-K0,75	23	S282UC-Z16	24	S501-K5.8	15.68	S502UC-K20	15.70
S281-K1.6W	22	S282UC-K1	23	S282UC-Z2	24	S501-K8	15.68	S502UC-K26	15.70
S281-K10W	22	S282UC-K1,6	23	S282UC-Z20	24	S501UC-B10	15.69	S502UC-K3	15.70
S281-K13W	22	S282UC-K10	23	S282UC-Z25	24	S501UC-B13	15.69	S502UC-K32	15.70
S281-K16W	22	S282UC-K16	23	S282UC-Z3	24	S501UC-B16	15.69	S502UC-K37	15.70
S281-K1W	22	S282UC-K2	23	S282UC-Z32	24	S501UC-B20	15.69	S502UC-K4.2	15.70
S281-K20W	22	S282UC-K20	23	S282UC-Z4	24	S501UC-B25	15.69	S502UC-K41	15.70
S281-K25W	22	S282UC-K25	23	S282UC-Z40	24	S501UC-B32	15.69	S502UC-K45	15.70

S280UC-K, 500 VDC

Supplemental protectors

UL 1077, CSA 22.2

Miniature
circuit breakers

K



S281UC-K



S282UC-K



S283UC-K

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,2	S281UC-K0,2	3	0,2	S283UC-K0.2
	0,3	S281UC-K0,3		0,3	S283UC-K0.3
	0,5	S281UC-K0,5		0,5	S283UC-K0.5
	0,75	S281UC-K0,75		0,75	S283UC-K0.75
	1	S281UC-K1		1	S283UC-K1
	1,6	S281UC-K1,6		1,6	S283UC-K1.6
	2	S281UC-K2		2	S283UC-K2
	3	S281UC-K3		3	S283UC-K3
	4	S281UC-K4		4	S283UC-K4
	6	S281UC-K6		6	S283UC-K6
	8	S281UC-K8		8	S283UC-K8
	10	S281UC-K10		10	S283UC-K10
	16	S281UC-K16		16	S283UC-K16
	20	S281UC-K20		20	S283UC-K20
2	0,2	S282UC-K0,2	3	0,2	S283UC-K0.2
	0,3	S282UC-K0,3		0,3	S283UC-K0.3
	0,5	S282UC-K0,5		0,5	S283UC-K0.5
	0,75	S282UC-K0,75		0,75	S283UC-K0.75
	1	S282UC-K1		1	S283UC-K1
	1,6	S282UC-K1,6		1,6	S283UC-K1.6
	2	S282UC-K2		2	S283UC-K2
	3	S282UC-K3		3	S283UC-K3
	4	S282UC-K4		4	S283UC-K4
	6	S282UC-K6		6	S283UC-K6
	8	S282UC-K8		8	S283UC-K8
	10	S282UC-K10		10	S283UC-K10
	16	S282UC-K16		16	S283UC-K16
	20	S282UC-K20		20	S283UC-K20
3	0,2	S283UC-K0,2	3	0,2	S283UC-K0.2
	0,3	S283UC-K0,3		0,3	S283UC-K0.3
	0,5	S283UC-K0,5		0,5	S283UC-K0.5
	0,75	S283UC-K0,75		0,75	S283UC-K0.75
	1	S283UC-K1		1	S283UC-K1
	1,6	S283UC-K1,6		1,6	S283UC-K1.6
	2	S283UC-K2		2	S283UC-K2
	3	S283UC-K3		3	S283UC-K3
	4	S283UC-K4		4	S283UC-K4
	6	S283UC-K6		6	S283UC-K6
	8	S283UC-K8		8	S283UC-K8
	10	S283UC-K10		10	S283UC-K10
	16	S283UC-K16		16	S283UC-K16
	20	S283UC-K20		20	S283UC-K20

Tripping characteristic K

UL 1077
500 VDC
10 kA

Inductive loads

- K Curve
- Designed for allowing higher in-rush currents during system start up
- Example: motors, transformer

Accessories & technical data

Accessories – See page 26

Technical data – See page 76 - 82

Direct current applications

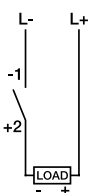
The S280UC differs from standard miniature circuit breakers in that the UC versions include a permanent magnet which aids in the extinguishing of the arc during medium and high level faults. It is necessary to observe the correct polarity and current direction when connecting the UC breakers. Two examples of correct connection are shown.

Termination points are marked on all UC type MCBs, points one (1) and four (4) are negative and points two (2) and three (3) are positive.

Note: This breaker for DC use only

250 V DC

Single Pole
S201DC



500 VDC

Two Pole
S282UC

