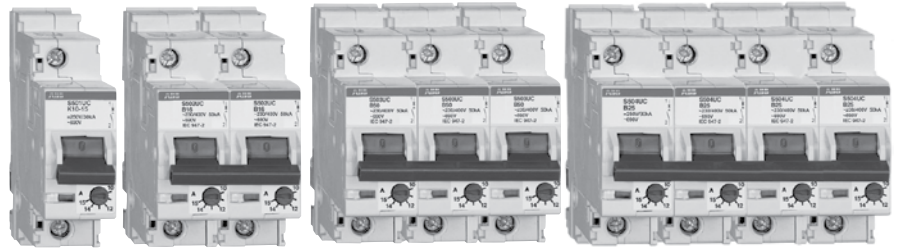


S500 Miniature Circuit Breakers



S500 Series
UL 1077



Description

The S500 high performance MCB offers a compact solution to circuit protection. The S500 devices are UL tested current limiting and DIN rail mounted. The S500 is available with application-specific trip characteristics to provide maximum circuit protection.

The breakers offer thermal-magnetic trip protection according to B and K characteristics.

For the worldwide market, the breakers carry CSA, IEC, CE and many other agency approvals.

Features

- High breaking capacity
- Fast breaking time (2.3 - 2.5 ms)
- Adjustable trip unit
- DIN rail mounting
- Finger safe terminals
- Multi-functional terminals
- Wide range of accessories
- UL 1077 recognized 600 VAC and 600 VDC versions
- UL1077 AC adjustable K
- UL1077 DC adjustable B, K
- UL File # E167556
- IEC #E60497-2

	S500	S500UC
Amperage	0.1 – 45 A	0.1 – 63 A
Voltage	UL: 600Y/277 VAC IEC: 690 VDC	UL: 600 VDC IEC: 750 VDC
Poles	1, 2, 3	1, 2, 3, 4
Trip characteristics	K	B, K
Interrupting ratings	30 kA: UL 1077 30 kA: CSA C22.2	30 kA: UL 1077 30 kA: CSA C22.2
Auxiliary contacts	Yes	Yes
Bell alarm	Yes	Yes
Shunt trip	No	No
Undervoltage release	No	No
Bus bar	Yes	Yes

S500-K, UL 600Y/277 VAC / IEC 690 VDC

Supplemental protection

UL 1077, CSA 22.2, IEC

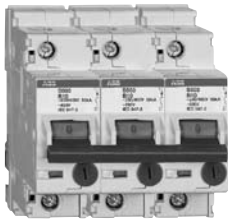
K



S501-K



S502-K



S503-K

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.1 - 0.15	S501-K0.15	3	0.1 - 0.15	S503-K0.15
	0.14 - 0.21	S501-K0.21		0.14 - 0.21	S503-K0.21
	0.2 - 0.3	S501-K0.3		0.2 - 0.3	S503-K0.3
	0.28 - 0.42	S501-K0.42		0.28 - 0.42	S503-K0.42
	0.38 - 0.58	S501-K0.58		0.38 - 0.58	S503-K0.58
	0.53 - 0.8	S501-K0.8		0.53 - 0.8	S503-K0.8
	0.73 - 1.1	S501-K1.1		0.73 - 1.1	S503-K1.1
	1 - 1.5	S501-K1.5		1 - 1.5	S503-K1.5
	1.4 - 2.1	S501-K2.1		1.4 - 2.1	S503-K2.1
	2 - 3	S501-K3		2 - 3	S503-K3
	2.8 - 4.2	S501-K4.2		2.8 - 4.2	S503-K4.2
	3.8 - 5.8	S501-K5.8		3.8 - 5.8	S503-K5.8
	5.3 - 8	S501-K8		5.3 - 8	S503-K8
	7.3 - 11	S501-K11		7.3 - 11	S503-K11
	10 - 15	S501-K15		10 - 15	S503-K15
	14 - 20	S501-K20		14 - 20	S503-K20
	2	0.1 - 0.15		S502-K0.15	3
0.14 - 0.21		S502-K0.21	0.14 - 0.21	S503-K0.21	
0.2 - 0.3		S502-K0.3	0.2 - 0.3	S503-K0.3	
0.28 - 0.42		S502-K0.42	0.28 - 0.42	S503-K0.42	
0.38 - 0.58		S502-K0.58	0.38 - 0.58	S503-K0.58	
0.53 - 0.8		S502-K0.8	0.53 - 0.8	S503-K0.8	
0.73 - 1.1		S502-K1.1	0.73 - 1.1	S503-K1.1	
1 - 1.5		S502-K1.5	1 - 1.5	S503-K1.5	
1.4 - 2.1		S502-K2.1	1.4 - 2.1	S503-K2.1	
2 - 3		S502-K3	2 - 3	S503-K3	
2.8 - 4.2		S502-K4.2	2.8 - 4.2	S503-K4.2	
3.8 - 5.8		S502-K5.8	3.8 - 5.8	S503-K5.8	
5.3 - 8		S502-K8	5.3 - 8	S503-K8	
7.3 - 11		S502-K11	7.3 - 11	S503-K11	
10 - 15		S502-K15	10 - 15	S503-K15	
14 - 20		S502-K20	14 - 20	S503-K20	
18 - 26		S502-K26	18 - 26	S503-K26	
23 - 32	S502-K32	23 - 32	S503-K32		
29 - 37	S502-K37	29 - 37	S503-K37		
34 - 41	S502-K41	34 - 41	S503-K41		
38 - 45	S502-K45	38 - 45	S503-K45		

Tripping characteristic K

UL 1077	IEC
600 VAC	690 VAC
30 kA	30 kA

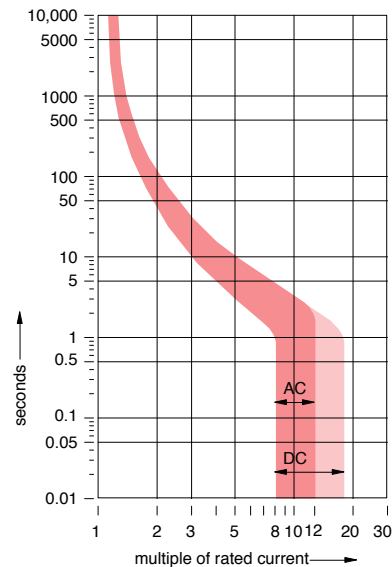
Inductive loads

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

Accessories & technical data

Accessories - See page 15.71

Technical data - See page 15.76 - 15.82



S500UC-B, UL 600 VDC / IEC 750 VDC

Supplemental protectors

UL1077, CSA 22.2, IEC

Miniature
circuit breakers

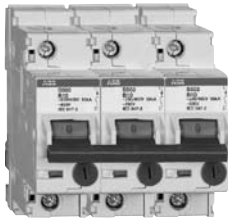
B



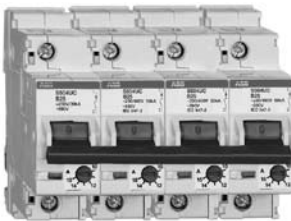
S501UC-B



S502UC-B



S503UC-B



S504UC-B

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	6	S501UC-B6	3	6	S503UC-B6
	10	S501UC-B10		10	S503UC-B10
	13	S501UC-B13		13	S503UC-B13
	16	S501UC-B16		16	S503UC-B16
	20	S501UC-B20		20	S503UC-B20
	25	S501UC-B25		25	S503UC-B25
	32	S501UC-B32		32	S503UC-B32
	40	S501UC-B40		40	S503UC-B40
	50	S501UC-B50		50	S503UC-B50
2	6	S502UC-B6	4	6	S504UC-B6
	10	S502UC-B10		10	S504UC-B10
	13	S502UC-B13		13	S504UC-B13
	16	S502UC-B16		16	S504UC-B16
	20	S502UC-B20		20	S504UC-B20
	25	S502UC-B25		25	S504UC-B25
	32	S502UC-B32		32	S504UC-B32
	40	S502UC-B40		40	S504UC-B40
	50	S502UC-B50		50	S504UC-B50
63	S502UC-B63	63	S504UC-B63		

Tripping characteristic B

UL 1077	IEC
600 VAC	750 VAC
30 kA	30 kA

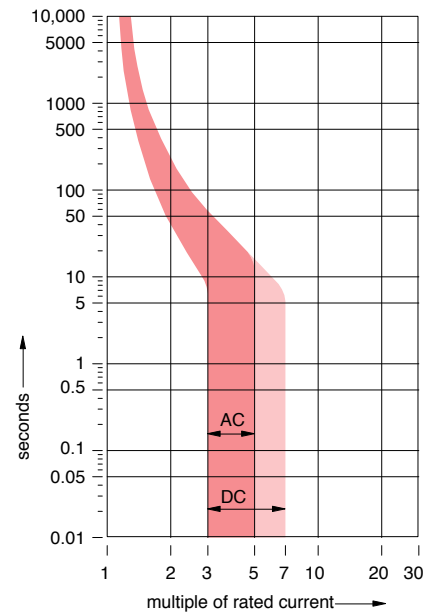
Inductive loads

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

Accessories & technical data

Accessories – See page 15.71

Technical data – See page 15.76 - 15.82



S500UC-K, UL 600 VDC / IEC 750 VDC

Supplemental protectors

UL1077, CSA 22.2, IEC

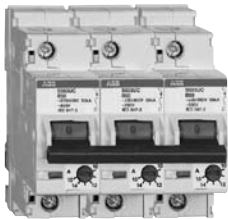
K



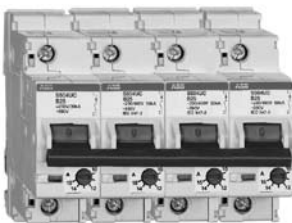
S501UC-K



S502UC-K



S503UC-K



S504UC-K

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.1 – 0.15	S501UC-K0.15	3	0.1 – 0.15	S503UC-K0.15
	0.14 – 0.21	S501UC-K0.21		0.14 – 0.21	S503UC-K0.21
	0.2 – 0.3	S501UC-K0.3		0.2 – 0.3	S503UC-K0.3
	0.28 – 0.42	S501UC-K0.42		0.28 – 0.42	S503UC-K0.42
	0.38 – 0.58	S501UC-K0.58		0.38 – 0.58	S503UC-K0.58
	0.53 – 0.8	S501UC-K0.8		0.53 – 0.8	S503UC-K0.8
	0.73 – 1.1	S501UC-K1.1		0.73 – 1.1	S503UC-K1.1
	1 – 1.5	S501UC-K1.5		1 – 1.5	S503UC-K1.5
	1.4 – 2.1	S501UC-K2.1		1.4 – 2.1	S503UC-K2.1
	2 – 3	S501UC-K3		2 – 3	S503UC-K3
	2.8 – 4.2	S501UC-K4.2		2.8 – 4.2	S503UC-K4.2
	3.8 – 5.8	S501UC-K5.8		3.8 – 5.8	S503UC-K5.8
	5.3 – 8	S501UC-K8		5.3 – 8	S503UC-K8
	7.3 – 11	S501UC-K11		7.3 – 11	S503UC-K11
	10 – 15	S501UC-K15		10 – 15	S503UC-K15
	14 – 20	S501UC-K20		14 – 20	S503UC-K20
	18 – 26	S501UC-K26		18 – 26	S503UC-K26
	23 – 32	S501UC-K32		23 – 32	S503UC-K32
29 – 37	S501UC-K37	29 – 37	S503UC-K37		
34 – 41	S501UC-K41	34 – 41	S503UC-K41		
38 – 45	S501UC-K45	38 – 45	S503UC-K45		
2	0.1 – 0.15	S502UC-K0.15	4	0.1 – 0.15	S504UC-K0.15
	0.14 – 0.21	S502UC-K0.21		0.14 – 0.21	S504UC-K0.21
	0.2 – 0.3	S502UC-K0.3		0.2 – 0.3	S504UC-K0.3
	0.28 – 0.42	S502UC-K0.42		0.28 – 0.42	S504UC-K0.42
	0.38 – 0.58	S502UC-K0.58		0.38 – 0.58	S504UC-K0.58
	0.53 – 0.8	S502UC-K0.8		0.53 – 0.8	S504UC-K0.8
	0.73 – 1.1	S502UC-K1.1		0.73 – 1.1	S504UC-K1.1
	1 – 1.5	S502UC-K1.5		1 – 1.5	S504UC-K1.5
	1.4 – 2.1	S502UC-K2.1		1.4 – 2.1	S504UC-K2.1
	2 – 3	S502UC-K3		2 – 3	S504UC-K3
	2.8 – 4.2	S502UC-K4.2		2.8 – 4.2	S504UC-K4.2
	3.8 – 5.8	S502UC-K5.8		3.8 – 5.8	S504UC-K5.8
	5.3 – 8	S502UC-K8		5.3 – 8	S504UC-K8
	7.3 – 11	S502UC-K11		7.3 – 11	S504UC-K11
	10 – 15	S502UC-K15		10 – 15	S504UC-K15
	14 – 20	S502UC-K20		14 – 20	S504UC-K20
	18 – 26	S502UC-K26		18 – 26	S504UC-K26
	23 – 32	S502UC-K32		23 – 32	S504UC-K32
29 – 37	S502UC-K37	29 – 37	S504UC-K37		
34 – 41	S502UC-K41	34 – 41	S504UC-K41		
38 – 45	S502UC-K45	38 – 45	S504UC-K45		

Tripping characteristic K

UL 1077	IEC
600 VAC	750 VAC
30 kA	30 kA

Inductive loads

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

Accessories & technical data

Accessories – See page 15.71

Technical data – See page 15.76 - 15.82

