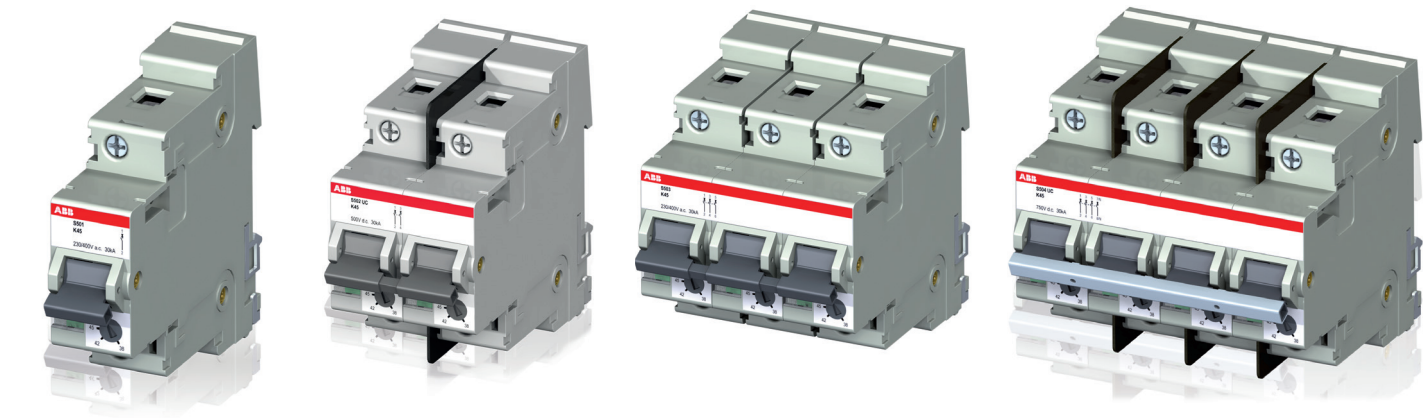


S500 series

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.

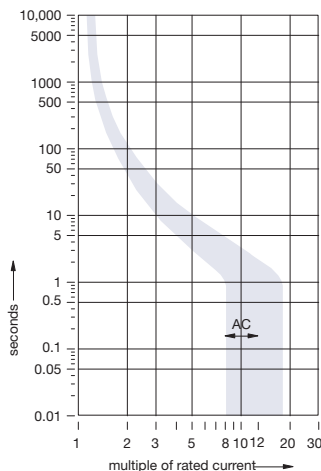
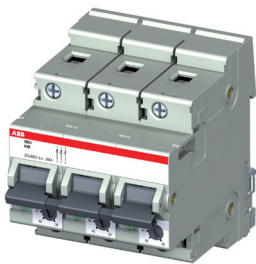
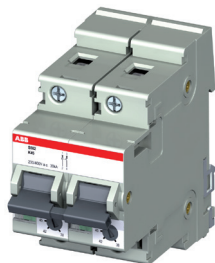
Features

- 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	600Y/347 VAC	1 pole 250 VDC 2 pole 500 VDC 3 pole 600 VDC 4 pole 600 VDC
Poles	1, 2, 3	1, 2, 3, 4
Trip characteristics	K	B, K
Interrupting ratings	Up to 30 kA: UL 1077 Up to 30 kA: CSA C22.2	30 kA: UL 1077 30 kA: CSA C22.2
Auxilliary contacts	Yes	Yes
Bell alarm	Yes	Yes
Shunt trip	No	No
Undervoltage release	No	No
Busbar	Yes	Yes

S500-K

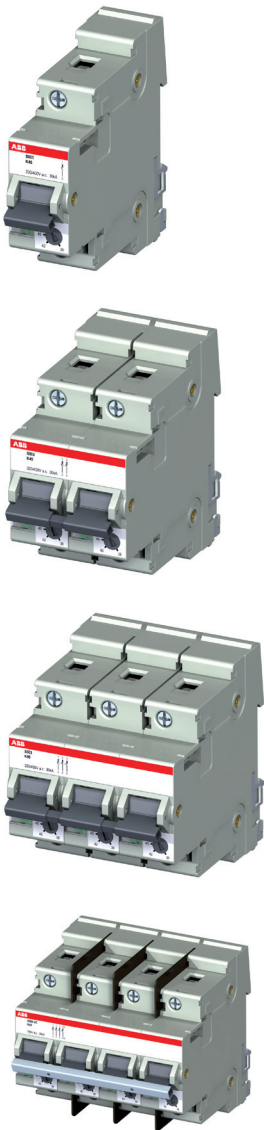
Supplemental protectors—UL 1077, CSA 22.2, IEC



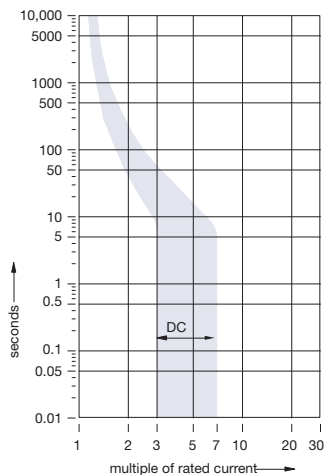
Number of poles	Rated current		Number of poles	Rated current	
	I_n A	Catalog number		I_n A	Catalog number
1	0.1-0.15	S501-K0.15	3	0.1-0.15	S503-K0.15
	0.14-0.21	S501-K0.21		0.14-0.21	S503-K0.21
	0.2-0.3	S501-K0.3		0.2-0.3	S503-K0.3
	0.28-0.42	S501-K0.42		0.28-0.42	S503-K0.42
	0.38-0.58	S501-K0.58		0.38-0.58	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
	18-26	S501-K26		18-26	S503-K26
	23-32	S501-K32		23-32	S503-K32
	29-37	S501-K37		29-37	S503-K37
	34-41	S501-K41		34-41	S503-K41
	38-45	S501-K45		38-45	S503-K45
2	0.1-0.15	S502-K0.15	3	0.1-0.15	S503-K0.15
	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

S500UC-B

Supplemental protectors—UL 1077, CSA 22.2, IEC

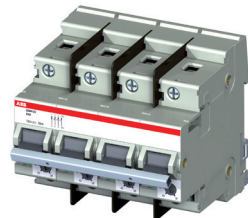
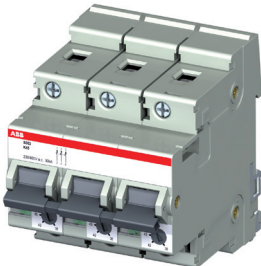
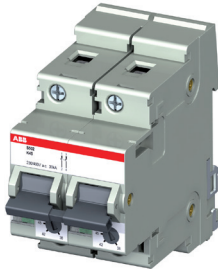
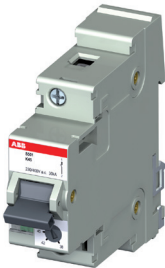


Number of poles	Rated current I_n A	Catalog number	Number of poles	Rated current I_n A	Catalog number
1	6	S501UC-B6	3	6	S503UC-B6
	10	S501UC-B10		10	S503UC-B10
	13	S501UC-B13		13	S503UC-B13
	16	S501UC-B16		16	S503UC-B16
	20	S501UC-B20		20	S503UC-B20
	25	S501UC-B25		25	S503UC-B25
	32	S501UC-B32		32	S503UC-B32
	40	S501UC-B40		40	S503UC-B40
	50	S501UC-B50		50	S503UC-B50
2	63	S501UC-B63	4	63	S503UC-B63
	6	S502UC-B6		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

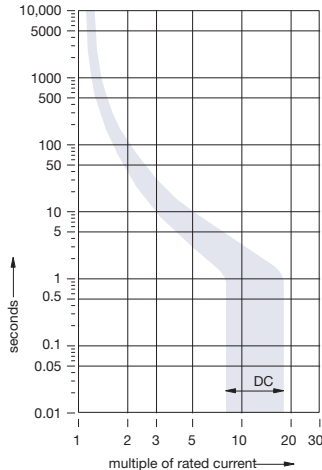


S500UC-K

Supplemental protectors—UL 1077, CSA 22.2, IEC

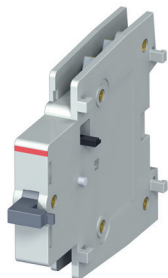


Number of poles			Number of poles		
Rated current I_n A			Rated current I_n A		
Catalog number			Catalog number		
1	0.1-0.15	S501UC-K0.15	3	0.1-0.15	S503UC-K0.15
	0.14-0.21	S501UC-K0.21		0.14-0.21	S503UC-K0.21
	0.2-0.3	S501UC-K0.3		0.2-0.3	S503UC-K0.3
	0.28-0.42	S501UC-K0.42		0.28-0.42	S503UC-K0.42
	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

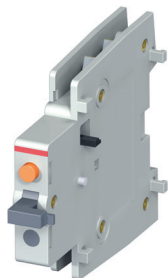


Accessories

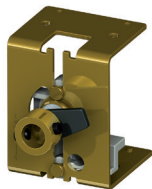
S500 UL 1077



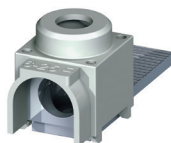
S500-H



S500-S



S500-RD3



S500-K1

Auxiliary contacts

The auxiliary contacts will signal whether the breaker is in the ON or OFF position.

Description	Catalog number
For field mounting: left side	
1 N.O./1 N.C.	S500-H11
2 N.O.	S500-H20

Bell alarm—signal contact

The bell alarm includes a set of contacts that will only signal when the breaker has tripped. Typically, the contacts would be connected to an alarm or bell to signal the operator that an overcurrent trip has occurred. The bell alarm also includes a test button for testing the alarm contacts without opening the breaker.

Description	Catalog number
For field mounting: left side	
1 N.O./1 N.C.	S500-S11
2 N.O.	S500-S20

Handle mechanism

Description	Catalog number
Handle mechanism	S500-RD3

Power feed terminal—Accepts into 2/0 AWG

Description	Catalog number
Rear mount terminal	S500-K2

Rear mount terminal—Accepts into 2/0AWG

Description	Catalog number
Accepts 4 AWG/25 mm	S500-K1

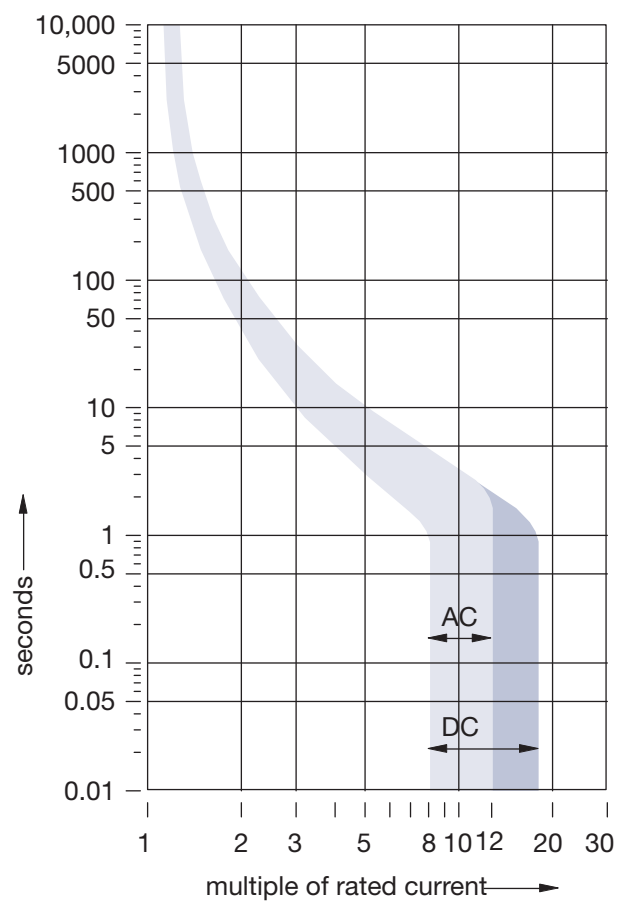
Technical specifications

S500-K and S500UC-B, K

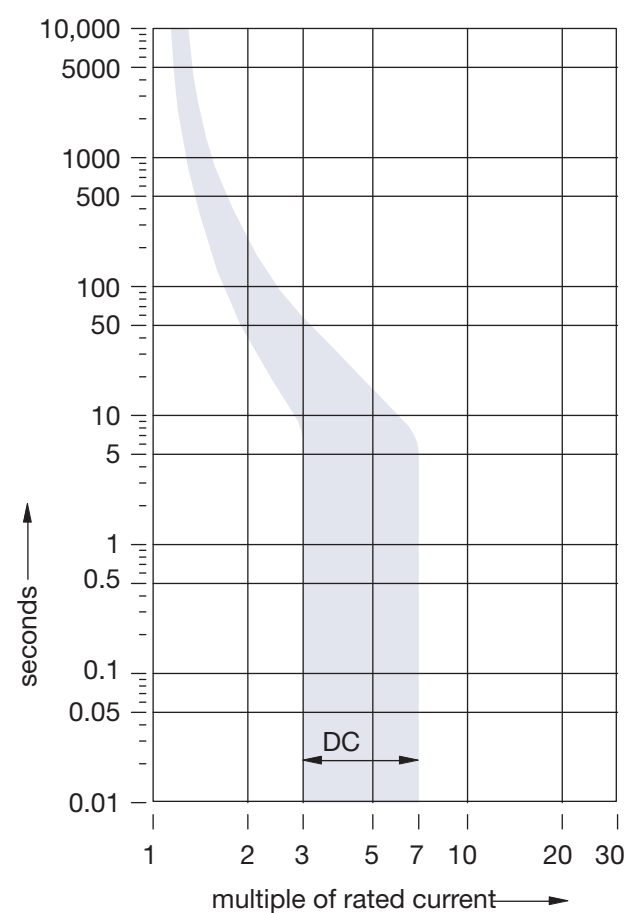
Auxiliary contact S800-AUX

	S500-K	S500UC-B, K
Approvals		
UL	1077	1077
CSA	C22.2-No. 235	C22.2-No. 235
Number of poles	1, 2, 3	1, 2, 3, 4
Tripping characteristic	K	B, K
Rated current	0.1 to 45 A	B: 6-63 A; K: 0.15-45 A
Rated voltage	600Y/347 VAC	1 pole 250 VDC 2 pole 500 VDC 3 pole 600 VDC 4 pole 600 VDC
Frequency	50/60 Hz	50/60 Hz
Mounting position	vertical, horizontal	vertical, horizontal
Standard mounting	35 mm DIN rail	35 mm DIN rail
Clamps only for CU	16-4 AWG	16-4 AWG
Service life, mechanical at rated load	20,000	20,000
Ambient temperature	40 °C...104 °F	40 °C...104 °F

Trip curve K



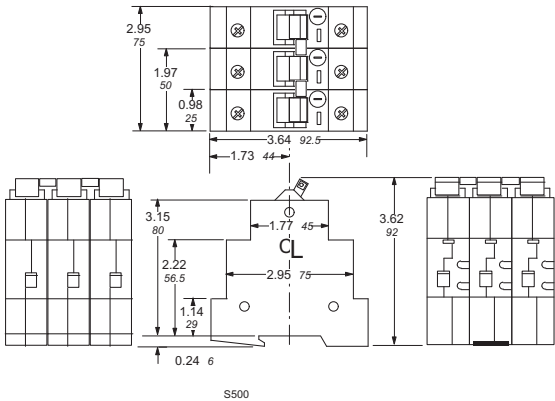
Trip curve B



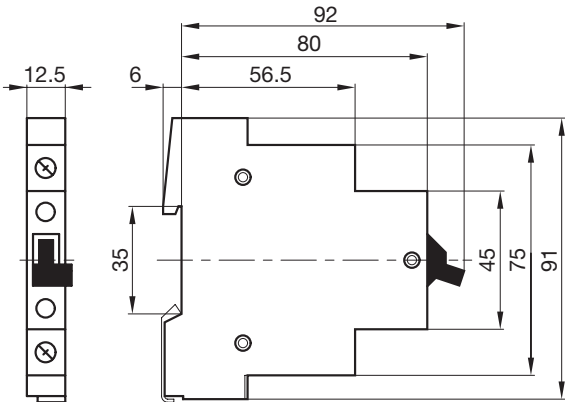
Approximate dimensions

S500 and accessories

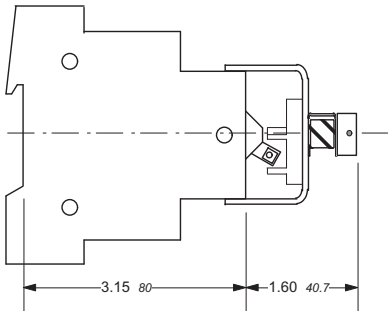
S500



S500-H11, S500-H20, S500-S11, and S500-S20



S500-RD3 Handle mechanism



S500 Front mounting kit

