



**pro M compact**  
 Supplementary Protectors  
 Miniature MCCBs

**The new generation of miniature circuit breakers.  
 System pro M compact S200 series.**

The new S200 series covers all your circuit breaker needs up to 63 amps. We have redesigned our popular supplementary protectors and have now introduced a brand new range of miniature molded case circuit breakers suitable for use as branch circuit protection according to UL 489/CSA C22.2 No.5.0.

Alongside the redesigned S200 supplementary protectors, the new S200 U and S200 UP miniature MCCBs offer the familiar ABB advantages; small size, excellent protection and easy installation.

S200 U and UP series are UL 489, CSA C22.2 No 5 approved as well as IEC 947. For the first time one circuit breaker fulfills North American and global approval requirements. Global circuit breakers for OEMs building global equipment.

By building on the proven technology of our supplementary protectors and introducing the new range of miniature MCCBs, ABB now offer a full solution of the highest quality that fits into the minimum space. This allows you to better meet the wishes of your customers by offering even more compact global solutions.

The new S200 series is the first truly compact and modular full circuit breaker solution for use in both North American and global markets.



## General information

Miniature circuit breakers (MCBs) are used throughout the world in all types of electrical installations. ABB MCBs are recognized by UL and CSA as supplementary circuit protectors in systems rated 240VAC and 480VAC.

MCBs are approved per IEC-898 and VDE 0641, and certified under IEC-947 and VDE 0660 standards for use in systems rated 415VAC.

MCBs can be applied to 16 2/3Hz – 400Hz and DC power systems.

Continuous current ratings are as low as 0.2 amperes and up to 63 amperes maximum.

MCBs are of compact size and can be quickly mounted on standard 35mm DIN rail or can be front mounted by use of a front mounting kit.

MCBs include line and load side terminals for conductors from 18 through 4AWG (0.75 – 25mm<sup>2</sup>).

MCBs can also be connected via busbar conductors which can be either upper or lower mounted for top feed or bottom feed. Dual function terminals allow busbars to be connected with main incoming line conductors without separate lugs.

## Accessories

Auxiliary devices can be added to S200 series MCBs:

- Shunt trips
- Auxiliary contacts
- Trip contacts
- Aux/trip contacts
- Undervoltage release

Accessory device modules can be field mounted to all above listed ABB MCBs.

## Applications

MCBs can be used for equipment protection, in commercial appliances, protection of control circuits against overcurrent faults, computer equipment and other computer peripheral devices.

### UL 489 / CSA C22.2 N° 5.0

S200U and S200UP MCBs are listed as molded case circuit breakers for use as branch circuit devices. MCCBs and accessories are listed under UL file E212323 and CSA file LR98793 certificate 1546332.

### UL 1077 / CSA C22.2 N° 235

S200 and S200P MCBs are recognized as supplementary protectors and are intended for use as overcurrent protection within an appliance or other electrical equipment where branch circuit overcurrent protection is already provided or not required. MCBs and accessories are recognized under UL File E76126 and CSA file LR98793 certificates 1530107 and 1546299.

## Tripping characteristics

### Time-current curves

ABB miniature circuit breakers are available with different trip characteristics, allowing for maximum system protection.

#### B characteristic

Available with the S200 series has rated currents of 6 through 63 amperes in 10 steps. The "B" time-current curve is designed primarily for use in cable protection applications. Instantaneous tripping occurs between approximately 3 to 5 times rated current in 50/60Hz systems. This quick trip curve maximizes protection of control circuits under low short circuit fault levels that could damage control wiring.

#### C characteristic

Available in the S200 series with rated currents up through 63 amperes. The "C" time-current curve is designed for medium magnetic start-up currents. Instantaneous tripping occurs between 5 and 10 times rated current in 50/60 Hz systems. The "C" characteristic is also available in other S2 series MCBs.

#### D characteristic

The new magnetic trip action has an instantaneous trip point of approximately 15 times the breaker rating. Thus, the S200-D can be a good protective solution for applications involving high in-rush transformers, motors and other high inductive systems. The 200-D is also suitable for any application where a high instantaneous trip point is desired. Available in the S200 series.

#### K characteristic

The "K" time-current characteristic considers high magnetic start-up currents from motors, transformers and other equipment. Instantaneous tripping occurs between 8 and 12 times rated current in 50/60Hz systems. The "K" characteristic is available up through 63 amperes.

The "K" curve offers the best protection for the broadest range of electrical systems. The higher magnetic trip settings maximizes protection while allowing for higher in-rush currents during system start-up. Available in the S200, S200U and S200UP series.

#### Z characteristic

Also available up through 63 amperes, the "Z" characteristic offers instantaneous tripping between 2 and 3 times rated current in 50/60Hz systems.

Many applications require a very low short circuit trip settings in order to protect semiconductor or other sensitive devices and the "Z" trip characteristic may provide maximum protection and service in these applications. Available in S200, S200U and S200UP.

# General information

## Interrupting ratings

## Trip characteristics overview

### Supplementary Protectors

#### Interrupting ratings

Voltage	Rated interrupting capacity	Rated current	MCB type	Comment
120 VAC	10kA	6 - 63A 0.5 - 63A	S200-B S200-C, D, K, Z	Single pole Single pole
240 VAC	10kA	6 - 63A 0.5 - 63A 6 - 63A 0.5 - 63A	S200-B S200-C, D, K, Z S200-B S200-C, D, K, Z	Single pole Single pole Multi pole Multi pole
277 VAC	6kA	6 - 63A 0.5 - 63A	S200-B S200-C, D, K, Z	Single pole Single pole
480Y/277 VAC	6kA	6 - 63A 0.5 - 63A	S200-B S200-C, D, K, Z	Multi pole Multi pole
60 VDC	10kA	6 - 63A 0.5 - 63A	S200-B S200-C, D, K, Z	Single pole Single pole
125 VDC	10kA	6 - 63A 0.5 - 63A	S200-B S200-C, D, K, Z	Multi pole Multi pole

#### Trip characteristics overview

Curve	Magnetic characteristic ①	Thermal characteristic	Series
B	3 - 5X	1.25X	S200
C	5 - 10X	1.25X	S200
D	10 - 20X	1.25X	S200
K	8 - 12X	1.05X	S200
Z	2 - 3X	1.05X	S200

① All values are relative to MCB's ampere rating.

### Miniature Molded Case Circuit Breakers

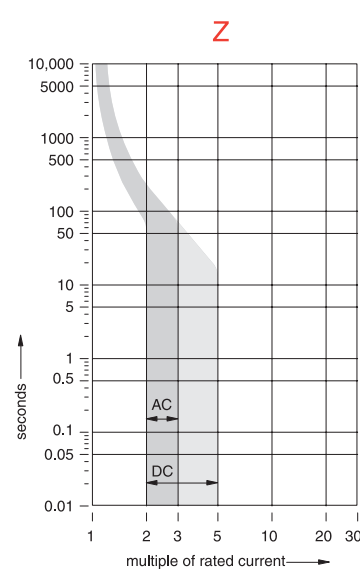
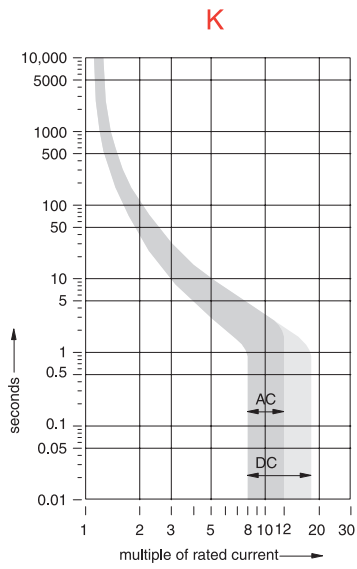
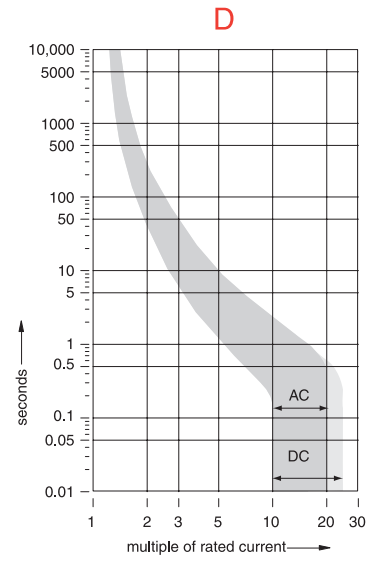
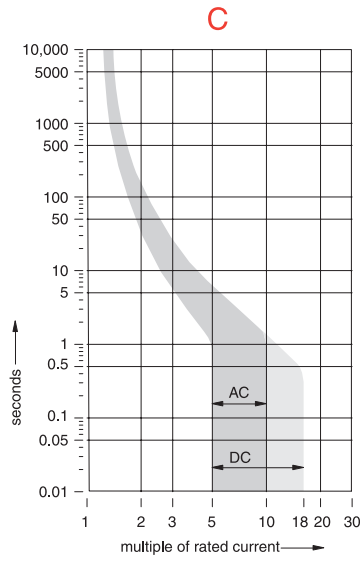
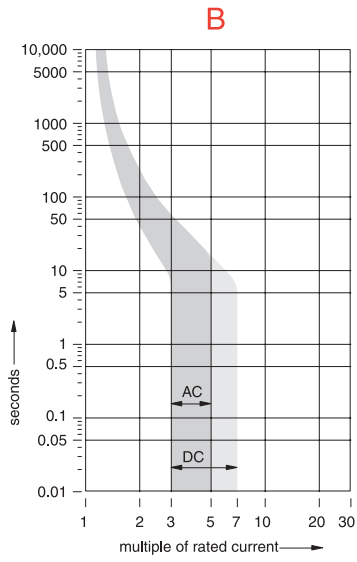
#### Interrupting ratings

Voltage	Rated interrupting capacity	Rated current	MCB type	Comment
120 VAC	10kA	0.2 - 63A 0.2 - 25A	S200U-K, Z S200UP-K, Z	Single pole Single pole
240 VAC	10kA	0.2 - 63A 0.2 - 63A 0.2 - 25A 0.2 - 25A	S200U-K, Z S200U-K, Z S200UP-K, Z S200UP-K, Z	Single pole Multi pole Single pole Multi pole
277 VAC	10kA	0.2 - 25A	S200UP-K, Z	Single pole
480Y/277 VAC	10kA	0.2 - 25A	S200UP-K, Z	Multi pole

# General information

## Tripping curves

### Supplementary Protectors



# General information

## Tripping curves

### Miniature MCCBs

#### S200U

ABB MCCB Type S200U - K 0,2A ... 63A  
(10 ... 17 x I<sub>n</sub>)  
Tripping Characteristic

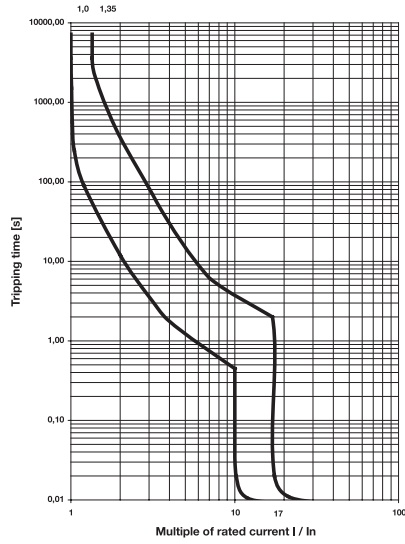
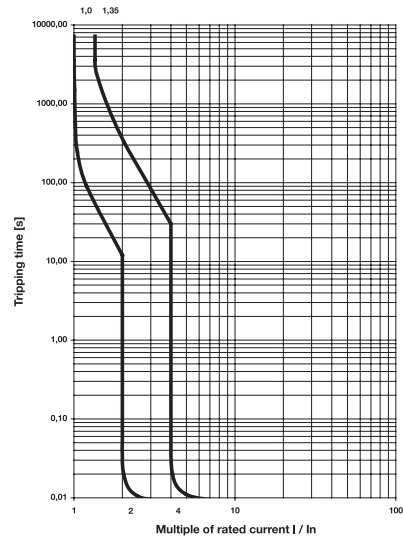


ABB MCCB Type S200U - Z 0,5A ... 63A  
(2 ... 4 x I<sub>n</sub>)  
Tripping Characteristic



#### S200UP

ABB MCCB Type S200UP - K 0,2A ... 25A  
(10 ... 17 x I<sub>n</sub>)  
Tripping Characteristic

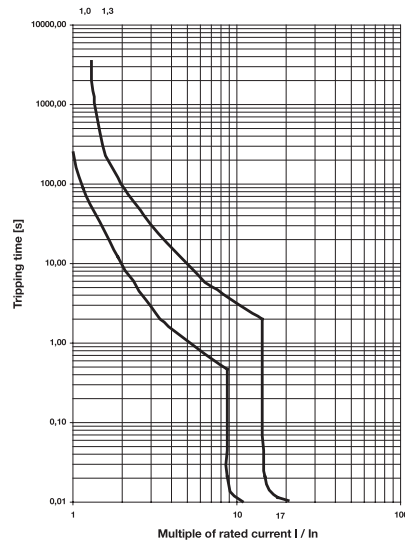
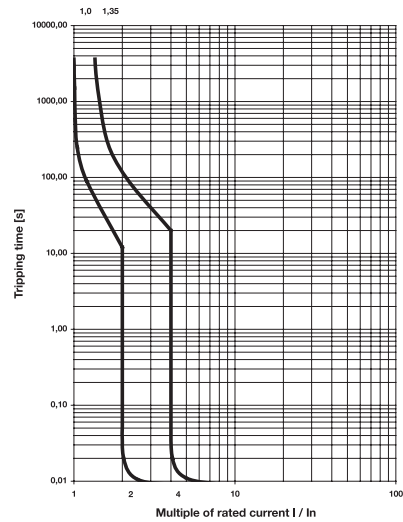
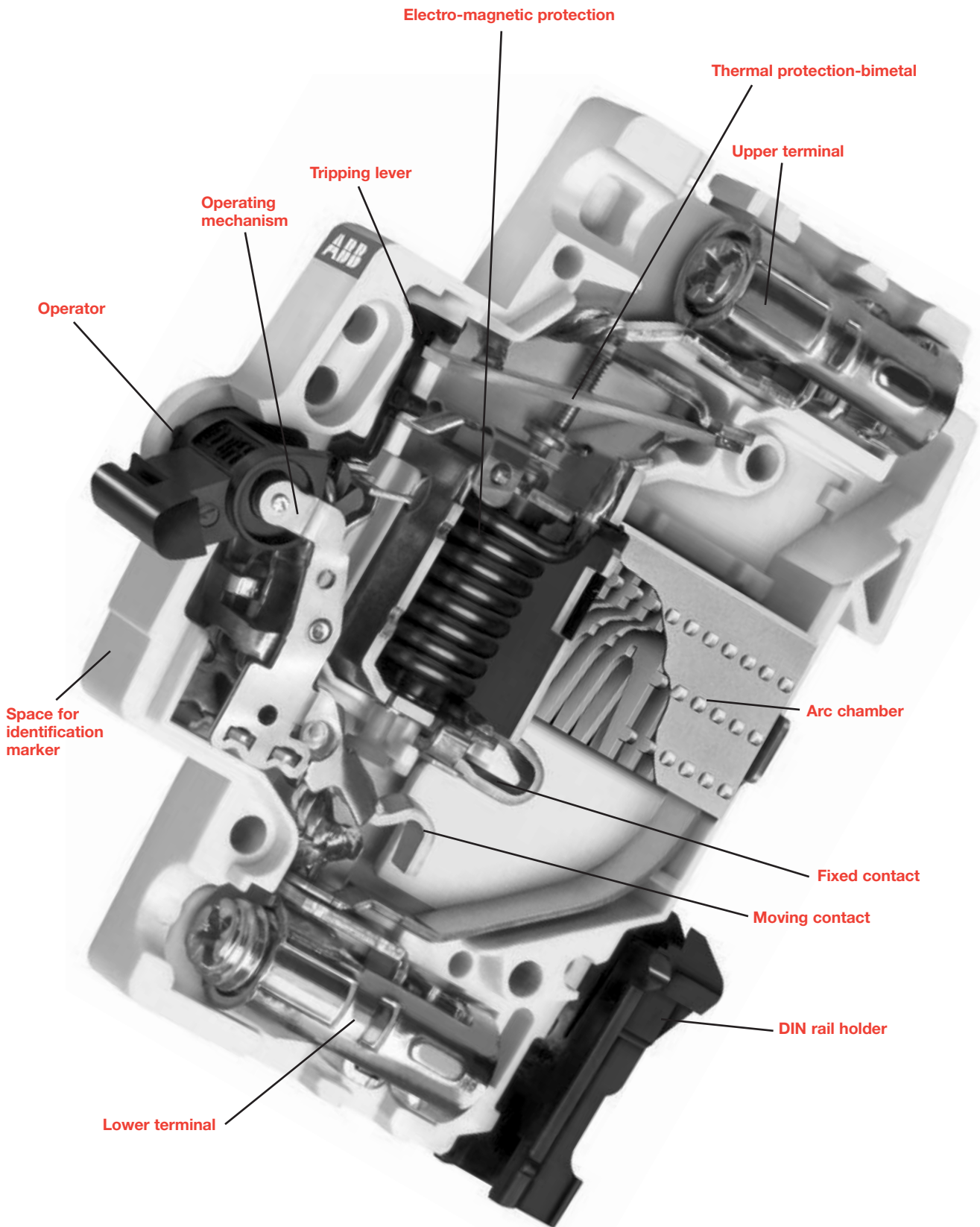


ABB MCCB Type S200UP - Z 0,5A ... 25A  
(2 ... 4 x I<sub>n</sub>)  
Tripping Characteristic



## General information

### Construction details



# S200

## 480Y/277VAC

### Supplementary Protectors

S200  
B

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**B** UL 1077 CSA C22.2 N° 235  
IEC-898/947-2  
Cable protection



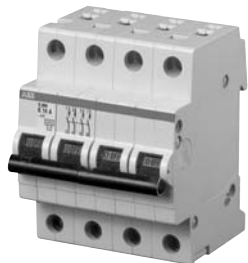
S201-B16



S202-B16

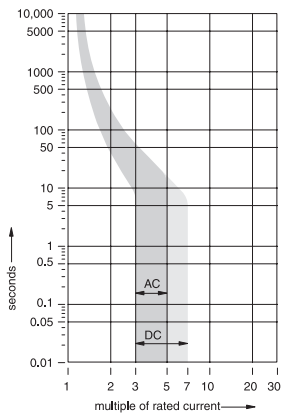


S203-B16



S204-B16

**B**



Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>1 pole</b>					
6	S201-B6				
10	S201-B10				
13	S201-B13				
16	S201-B16				
20	S201-B20				
25	S201-B25		A	10	0.125
32	S201-B32				
40	S201-B40				
50	S201-B50				
63	S201-B63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>1 pole + neutral</b>					
6	S201-B6NA				
10	S201-B10NA				
13	S201-B13NA				
16	S201-B16NA				
20	S201-B20NA				
25	S201-B25NA		C	5	0.250
32	S201-B32NA				
40	S201-B40NA				
50	S201-B50NA				
63	S201-B63NA				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>2 pole</b>					
6	S202-B6				
10	S202-B10				
13	S202-B13				
16	S202-B16				
20	S202-B20				
25	S202-B25		A	5	0.250
32	S202-B32				
40	S202-B40				
50	S202-B50				
63	S202-B63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>3 pole</b>					
6	S203-B6				
10	S203-B10				
13	S203-B13				
16	S203-B16				
20	S203-B20				
25	S203-B25		A	1	0.375
32	S203-B32				
40	S203-B40				
50	S203-B50				
63	S203-B63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>3 pole + neutral</b>					
6	S203-B6NA				
10	S203-B10NA				
13	S203-B13NA				
16	S203-B16NA				
20	S203-B20NA				
25	S203-B25NA		C	1	0.500
32	S203-B32NA				
40	S203-B40NA				
50	S203-B50NA				
63	S203-B63NA				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>4 pole</b>					
6	S204-B6				
10	S204-B10				
13	S204-B13				
16	S204-B16				
20	S204-B20				
25	S204-B25		C	1	0.510
32	S204-B32				
40	S204-B40				
50	S204-B50				
63	S204-B63				

#### Delivery Class

- A** - Standard item, stock to 2 weeks lead time
- B** - Stock to 4 weeks lead time
- C** - 6 to 8 week lead time

S200  
C

# S200 480Y/277VAC Supplementary Protectors

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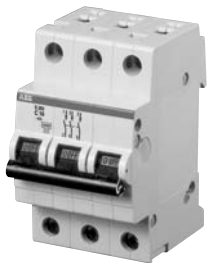
**C** UL 1077 CSA C22.2 - N° 235  
IEC-898/947-2  
Cable & equipment protection



S201-C16

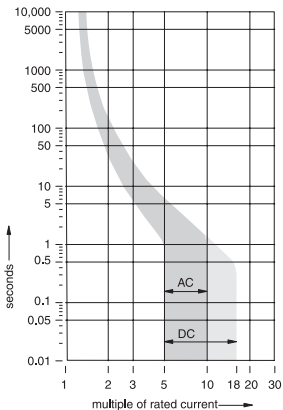


S202-C16



S203-C16

**C**



Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
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**1 pole**

0.5	S201-C0.5				
1	S201-C1				
1.6	S201-C1.6				
2	S201-C2				
3	S201-C3				
4	S201-C4				
6	S201-C6				
8	S201-C8				
10	S201-C10		B	10	0.125
13	S201-C13				
16	S201-C16				
20	S201-C20				
25	S201-C25				
32	S201-C32				
40	S201-C40				
50	S201-C50				
63	S201-C63				

**1 pole + neutral**

0.5	S201-C0.5NA				
1	S201-C1NA				
1.6	S201-C1.6NA				
2	S201-C2NA				
3	S201-C3NA				
4	S201-C4NA				
6	S201-C6NA				
8	S201-C8NA				
10	S201-C10NA		C	5	0.250
13	S201-C13NA				
16	S201-C16NA				
20	S201-C20NA				
25	S201-C25NA				
32	S201-C32NA				
40	S201-C40NA				
50	S201-C50NA				
63	S201-C63NA				

**2 pole**

0.5	S202-C0.5				
1	S202-C1				
1.6	S202-C1.6				
2	S202-C2				
3	S202-C3				
4	S202-C4				
6	S202-C6				
8	S202-C8				
10	S202-C10		B	5	0.250
13	S202-C13				
16	S202-C16				
20	S202-C20				
25	S202-C25				
32	S202-C32				
40	S202-C40				
50	S202-C50				
63	S202-C63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
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**3 pole**

0.5	S203-C0.5				
1	S203-C1				
1.6	S203-C1.6				
2	S203-C2				
3	S203-C3				
4	S203-C4				
6	S203-C6				
8	S203-C8				
10	S203-C10		B	1	0.375
13	S203-C13				
16	S203-C16				
20	S203-C20				
25	S203-C25				
32	S203-C32				
40	S203-C40				
50	S203-C50				
63	S203-C63				

**3 pole + neutral**

0.5	S203-C0.5NA				
1	S203-C1NA				
1.6	S203-C1.6NA				
2	S203-C2NA				
3	S203-C3NA				
4	S203-C4NA				
6	S203-C6NA				
8	S203-C8NA				
10	S203-C10NA		B	1	0.500
13	S203-C13NA				
16	S203-C16NA				
20	S203-C20NA				
25	S203-C25NA				
32	S203-C32NA				
40	S203-C40NA				
50	S203-C50NA				
63	S203-C63NA				

**4 pole**

0.5	S204-C0.5				
1	S204-C1				
1.6	S204-C1.6				
2	S204-C2				
3	S204-C3				
4	S204-C4				
6	S204-C6				
8	S204-C8				
10	S204-C10				
13	S204-C13				
16	S204-C16				
20	S204-C20				
25	S204-C25				
32	S204-C32				
40	S204-C40				
50	S204-C50				
63	S204-C63				

**Delivery Class**

- A** - Standard item, stock to 2 weeks lead time
- B** - Stock to 4 weeks lead time
- C** - 6 to 8 week lead time



# S200

## 480Y/277VAC

### Supplementary Protectors

S200  
D

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**D** UL 1077 CSA C22.2 - N° 235  
IEC-898/947-2  
Cable & equipment protection



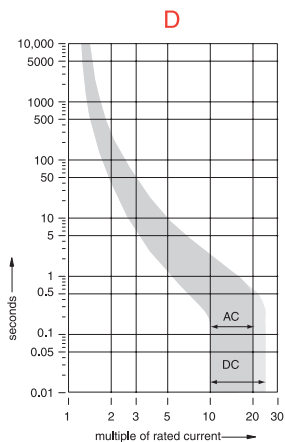
S201-D16



S202-D16



S203-D16



Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>1 pole</b>					
0.5	S201-D0.5				
1	S201-D1				
1.6	S201-D1.6				
2	S201-D2				
3	S201-D3				
4	S201-D4				
6	S201-D6				
8	S201-D8				
10	S201-D10		B	10	0.125
13	S201-D13				
16	S201-D16				
20	S201-D20				
25	S201-D25				
32	S201-D32				
40	S201-D40				
50	S201-D50				
63	S201-D63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>1 pole + neutral</b>					
0.5	S201-D0.5NA				
1	S201-D1NA				
1.6	S201-D1.6NA				
2	S201-D2NA				
3	S201-D3NA				
4	S201-D4NA				
6	S201-D6NA				
8	S201-D8NA				
10	S201-D10NA		C	5	0.250
13	S201-D13NA				
16	S201-D16NA				
20	S201-D20NA				
25	S201-D25NA				
32	S201-D32NA				
40	S201-D40NA				
50	S201-D50NA				
63	S201-D63NA				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>2 pole</b>					
0.5	S202-D0.5				
1	S202-D1				
1.6	S202-D1.6				
2	S202-D2				
3	S202-D3				
4	S202-D4				
6	S202-D6				
8	S202-D8				
10	S202-D10		B	5	0.250
13	S202-D13				
16	S202-D16				
20	S202-D20				
25	S202-D25				
32	S202-D32				
40	S202-D40				
50	S202-D50				
63	S202-D63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>3 pole</b>					
0.5	S203-D0.5				
1	S203-D1				
1.6	S203-D1.6				
2	S203-D2				
3	S203-D3				
4	S203-D4				
6	S203-D6				
8	S203-D8				
10	S203-D10		B	1	0.375
13	S203-D13				
16	S203-D16				
20	S203-D20				
25	S203-D25				
32	S203-D32				
40	S203-D40				
50	S203-D50				
63	S203-D63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>3 pole + neutral</b>					
0.5	S203-D0.5NA				
1	S203-D1NA				
1.6	S203-D1.6NA				
2	S203-D2NA				
3	S203-D3NA				
4	S203-D4NA				
6	S203-D6NA				
8	S203-D8NA				
10	S203-D10NA		C	1	0.500
13	S203-D13NA				
16	S203-D16NA				
20	S203-D20NA				
25	S203-D25NA				
32	S203-D32NA				
40	S203-D40NA				
50	S203-D50NA				
63	S203-D63NA				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>4 pole</b>					
0.5	S204-D0.5				
1	S204-D1				
1.6	S204-D1.6				
2	S204-D2				
3	S204-D3				
4	S204-D4				
6	S204-D6				
8	S204-D8				
10	S204-D10				
13	S204-D13				
16	S204-D16				
20	S204-D20				
25	S204-D25				
32	S204-D32				
40	S204-D40				
50	S204-D50				
63	S204-D63				

**Delivery Class**

- A** - Standard item, stock to 2 weeks lead time
- B** - Stock to 4 weeks lead time
- C** - 6 to 8 week lead time

S200  
K

# S200 480Y/277VAC Supplementary Protectors

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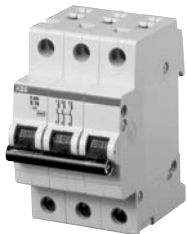
**K** UL 1077 CSA C22.2 - N° 235  
IEC-947-2  
Cable & equipment protection



S201-K15

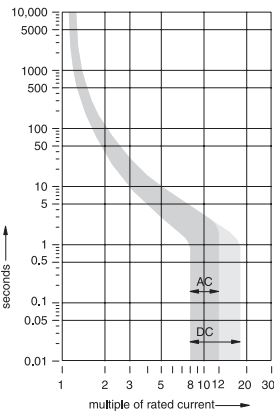


S202-K15



S203-K15

K



Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>1 pole</b>					
0.5	S201-K0.5				
1	S201-K1				
1.6	S201-K1.6				
2	S201-K2				
3	S201-K3				
4	S201-K4				
5	S201-K5				
6	S201-K6				
8	S201-K8		A	10	0.125
10	S201-K10				
13	S201-K13				
15	S201-K15				
16	S201-K16				
20	S201-K20				
25	S201-K25				
30	S201-K30				
32	S201-K32				
40	S201-K40				
50	S201-K50				
60	S201-K60				
63	S201-K63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>1 pole + neutral</b>					
0.5	S201-K0.5NA				
1	S201-K1NA				
1.6	S201-K1.6NA				
2	S201-K2NA				
3	S201-K3NA				
4	S201-K4NA				
6	S201-K6NA				
8	S201-K8NA				
10	S201-K10NA		C	5	0.250
13	S201-K13NA				
16	S201-K16NA				
20	S201-K20NA				
25	S201-K25NA				
32	S201-K32NA				
40	S201-K40NA				
50	S201-K50NA				
63	S201-K63NA				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>2 pole</b>					
0.5	S202-K0.5				
1	S202-K1				
1.6	S202-K1.6				
2	S202-K2				
3	S202-K3				
4	S202-K4				
5	S202-K5				
6	S202-K6				
8	S202-K8				
10	S202-K10		A	5	0.250
13	S202-K13				
15	S202-K15				
16	S202-K16				
20	S202-K20				
25	S202-K25				
30	S202-K30				
32	S202-K32				
40	S202-K40				
50	S202-K50				
60	S202-K60				
63	S202-K63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>3 pole</b>					
0.5	S203-K0.5				
1	S203-K1				
1.6	S203-K1.6				
2	S203-K2				
3	S203-K3				
4	S203-K4				
5	S203-K5				
6	S203-K6				
8	S203-K8				
10	S203-K10		A	1	0.375
13	S203-K13				
15	S203-K15				
16	S203-K16				
20	S203-K20				
25	S203-K25				
30	S203-K30				
32	S203-K32				
40	S203-K40				
50	S203-K50				
60	S203-K60				
63	S203-K63				

Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>3 pole + neutral</b>					
0.5	S203-K0.5NA				
1	S203-K1NA				
1.6	S203-K1.6NA				
2	S203-K2NA				
3	S203-K3NA				
4	S203-K4NA				
6	S203-K6NA				
8	S203-K8NA				
10	S203-K10NA		C	1	0.500
13	S203-K13NA				
16	S203-K16NA				
20	S203-K20NA				
25	S203-K25NA				
32	S203-K32NA				
40	S203-K40NA				
50	S203-K50NA				
63	S203-K63NA				

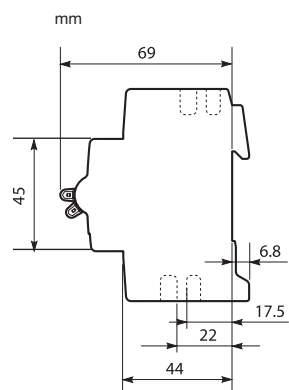
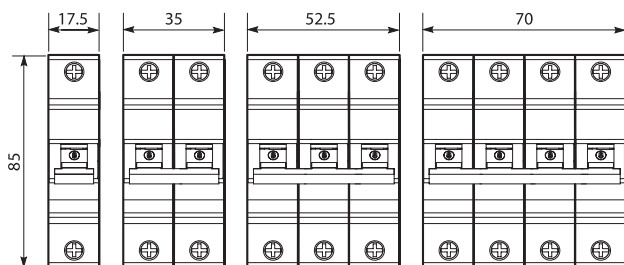
Rated current	Catalog number	List price	Delivery class	Sugg. order qty	Wgt. kg (1 pc.)
<b>4 pole</b>					
0.5	S204-K0.5				
1	S204-K1				
1.6	S204-K1.6				
2	S204-K2				
3	S204-K3				
4	S204-K4				
6	S204-K6				
8	S204-K8				
10	S204-K10		C	1	0.500
13	S204-K13				
16	S204-K16				
20	S204-K20				
25	S204-K25				
32	S204-K32				
40	S204-K40				
50	S204-K50				
63	S204-K63				

**Delivery Class**

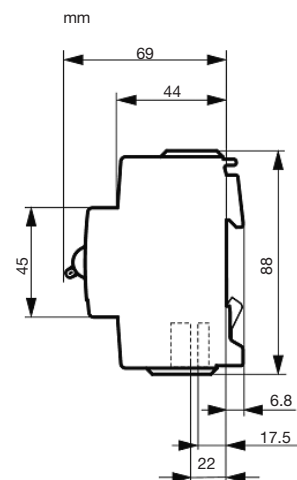
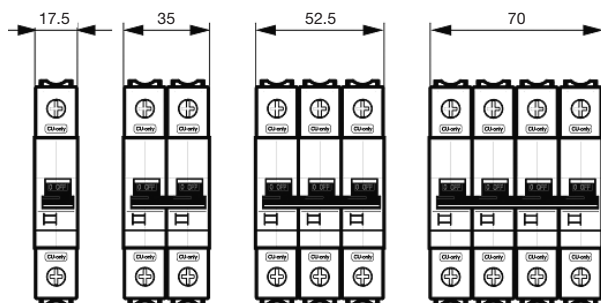
- A** - Standard item, stock to 2 weeks lead time
- B** - Stock to 4 weeks lead time
- C** - 6 to 8 week lead time

## Approximate dimension S200, S200U, S200UP

### S200



### S200U



### S200UP

