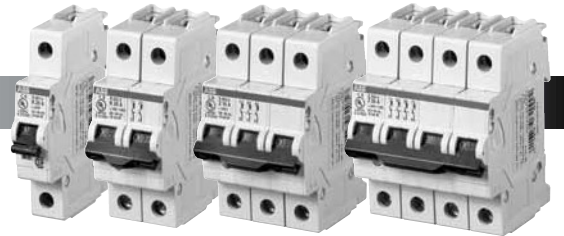


### 15 - Miniature circuit breakers



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### Description

The S200 Series miniature circuit breaker offers a compact solution for protection requirements. The S200U AND S200UP devices are UL 489 tested current limiting and DIN rail mounted.

The S200U and S200UP is available with application-specific trip characteristics to provide maximum circuit protection.

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

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

### Features

- UL current limiting
- Fast breaking time (2.3 – 2.5 ms)
- Bus connection system
- Wide range of accessories
- Available with variable depth handle mechanism
- CE certified and marked
- DIN rail mounting
- Finger safe terminals
- Multi-function terminals
- Suitable for reverse feed but S200UDC has polarity
- UL 489 Listed - branch circuit protective device. UL File #E212323

	S200U	S200UP	SU200PR	S200UDC
<b>Amperage</b>	0.2 – 63	0.2 – 25	0.2 – 35A ; 40 – 63A	1 – 63
<b>Voltage</b>	240 VAC	480Y/277VAC	480Y/277 VAC ; 240 VAC	60-125 VDC
<b>Poles</b>	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2
<b>Trip characteristics</b>	K, Z	K, Z	K	K, Z
<b>Interrupting ratings</b>	Up to 25 kA: IEC 60947-2 10 kA: UL 489 10 kA: CSA 22.2 No. 5	Up to 25 kA: IEC 60947-2 10 kA: UL 489 10 kA: CSA 22.2 No. 5	10kA: UL489 10kA: CSA 22.2 No.5	14 kA: UL489 14 kA: CSA 22.2 No. 5
<b>Auxiliary contacts</b>	Yes	Yes	Yes	Yes
<b>Bell alarm</b>	Yes	Yes	Yes	Yes
<b>Shunt trip</b>	Yes	Yes	Yes	Yes
<b>Bus bar</b>	Yes	Yes	No	Yes

## S200U-K, 240 VAC

Branch circuit protection  
UL 489, CSA 22.2 No. 5

# K



S201U-K



S202U-K



S203U-K



S204U-K

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.2	S201U-K0.2	3	0.2	S203U-K0.2
	0.3	S201U-K0.3		0.3	S203U-K0.3
	0.5	S201U-K0.5		0.5	S203U-K0.5
	0.75	S201U-K0.75		0.75	S203U-K0.75
	1	S201U-K1		1	S203U-K1
	1.6	S201U-K1.6		1.6	S203U-K1.6
	2	S201U-K2		2	S203U-K2
	3	S201U-K3		3	S203U-K3
	4	S201U-K4		4	S203U-K4
	5	S201U-K5		5	S203U-K5
	6	S201U-K6		6	S203U-K6
	8	S201U-K8		8	S203U-K8
	10	S201U-K10		10	S203U-K10
	15	S201U-K15		15	S203U-K15
	16	S201U-K16		16	S203U-K16
	20	S201U-K20		20	S203U-K20
25	S201U-K25	25	S203U-K25		
2	0.2	S202U-K0.2	4	0.2	S204U-K0.2
	0.3	S202U-K0.3		0.3	S204U-K0.3
	0.5	S202U-K0.5		0.5	S204U-K0.5
	0.75	S202U-K0.75		0.75	S204U-K0.75
	1	S202U-K1		1	S204U-K1
	1.6	S202U-K1.6		1.6	S204U-K1.6
	2	S202U-K2		2	S204U-K2
	3	S202U-K3		3	S204U-K3
	4	S202U-K4		4	S204U-K4
	5	S202U-K5		5	S204U-K5
	6	S202U-K6		6	S204U-K6
	8	S202U-K8		8	S204U-K8
	10	S202U-K10		10	S204U-K10
	15	S202U-K15		15	S204U-K15
	16	S202U-K16		16	S204U-K16
	20	S202U-K20		20	S204U-K20
25	S202U-K25	25	S204U-K25		
3	30	S201U-K30	4	30	S204U-K30
	32	S201U-K32		32	S204U-K32
	40	S201U-K40		40	S204U-K40
	50	S201U-K50		50	S204U-K50
	60	S201U-K60		60	S204U-K60
	63	S201U-K63		63	S204U-K63

### Tripping characteristic K

UL 489  
240 VAC  
10 kA

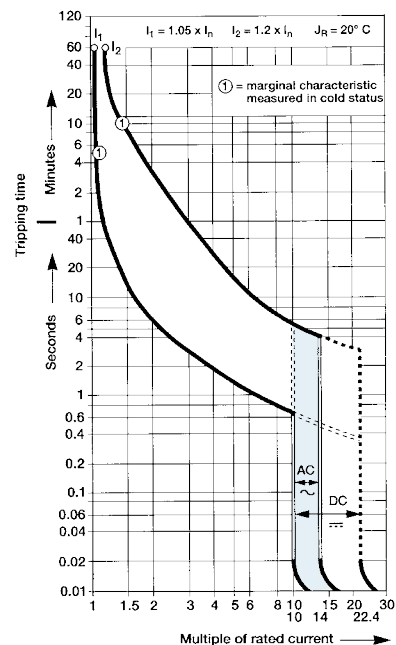
#### Inductive loads

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

#### Accessories & technical data

Accessories – See page 15.9 - 15.13

Technical data – See page 15.14 -15.16



Note: This breaker for AC use only

# S200U-Z, 240 VAC

## Branch circuit protection

### UL 489, CSA 22.2 No. 5

# Z



S201U-Z



S202U-Z



S203U-Z



S204U-Z

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,5	S201U-Z0,5	3	0,5	S203U-Z0,5
	1	S201U-Z1		1	S203U-Z1
	1,6	S201U-Z1,6		1,6	S203U-Z1,6
	2	S201U-Z2		2	S203U-Z2
	3	S201U-Z3		3	S203U-Z3
	4	S201U-Z4		4	S203U-Z4
	5	S201U-Z5		5	S203U-Z5
	6	S201U-Z6		6	S203U-Z6
	8	S201U-Z8		8	S203U-Z8
	10	S201U-Z10		10	S203U-Z10
	15	S201U-Z15		15	S203U-Z15
	16	S201U-Z16		16	S203U-Z16
	20	S201U-Z20		20	S203U-Z20
	25	S201U-Z25		25	S203U-Z25
	30	S201U-Z30		30	S203U-Z30
	2	32		S201U-Z32	4
40		S201U-Z40	40	S203U-Z40	
50		S201U-Z50	50	S203U-Z50	
60		S201U-Z60	60	S203U-Z60	
63		S201U-Z63	63	S203U-Z63	
0,5		S202U-Z0,5	0,5	S204U-Z0,5	
1		S202U-Z1	1	S204U-Z1	
1,6		S202U-Z1,6	1,6	S204U-Z1,6	
2	S202U-Z2	2	S204U-Z2		
3	S202U-Z3	3	S204U-Z3		
4	S202U-Z4	4	S204U-Z4		
5	S202U-Z5	5	S204U-Z5		
6	S202U-Z6	6	S204U-Z6		
8	S202U-Z8	8	S204U-Z8		
10	S202U-Z10	10	S204U-Z10		
15	S202U-Z15	15	S204U-Z15		
16	S202U-Z16	16	S204U-Z16		
20	S202U-Z20	20	S204U-Z20		
25	S202U-Z25	25	S204U-Z25		
30	S202U-Z30	30	S204U-Z30		
2	32	S202U-Z32	4	32	S204U-Z32
	40	S202U-Z40		40	S204U-Z40
	50	S202U-Z50		50	S204U-Z50
	60	S202U-Z60		60	S204U-Z60
	63	S202U-Z63		63	S204U-Z63

### Tripping characteristic Z

UL 489  
240 VAC  
10 kA

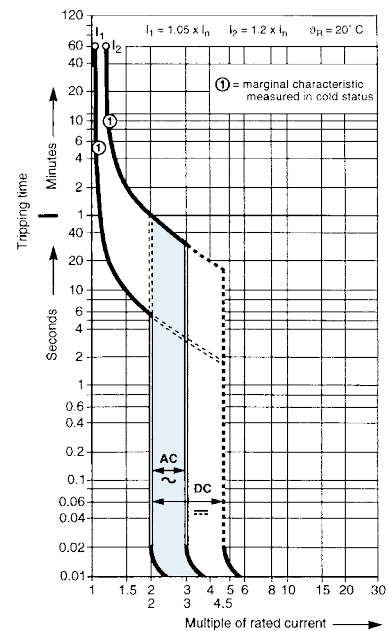
#### Resistive loads

- Z Curve
- Designed to provide maximum protection with a very low short circuit trip setting
- Example: semiconductors, control circuits

#### Accessories & technical data

Accessories – See page 15.9 - 15.13

Technical data – See page 15.14 -15.16



Note: This breaker for AC use only

## S200UP-K, 480Y/277 VAC

Branch circuit protection  
UL 489, CSA 22.2 No. 5

# K



S201UP-K



S202UP-K



S203UP-K



S204UP-K

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.2	S201UP-K0,2	3	0.2	S203UP-K0,2
	0.3	S201UP-K0,3		0.3	S203UP-K0,3
	0.5	S201UP-K0,5		0.5	S203UP-K0,5
	0.75	S201UP-K0,75		0.75	S203UP-K0,75
	1	S201UP-K1		1	S203UP-K1
	1.6	S201UP-K1,6		1.6	S203UP-K1,6
	2	S201UP-K2		2	S203UP-K2
	3	S201UP-K3		3	S203UP-K3
	4	S201UP-K4		4	S203UP-K4
	5	S201UP-K5		5	S203UP-K5
	6	S201UP-K6		6	S203UP-K6
	8	S201UP-K8		8	S203UP-K8
	10	S201UP-K10		10	S203UP-K10
	15	S201UP-K15		15	S203UP-K15
	16	S201UP-K16		16	S203UP-K16
20	S201UP-K20	20	S203UP-K20		
25	S201UP-K25	25	S203UP-K25		
2	0.2	S202UP-K0,2	4	0.2	S204UP-K0,2
	0.3	S202UP-K0,3		0.3	S204UP-K0,3
	0.5	S202UP-K0,5		0.5	S204UP-K0,5
	0.75	S202UP-K0,75		0.75	S204UP-K0,75
	1	S202UP-K1		1	S204UP-K1
	1.6	S202UP-K1,6		1.6	S204UP-K1,6
	2	S202UP-K2		2	S204UP-K2
	3	S202UP-K3		3	S204UP-K3
	4	S202UP-K4		4	S204UP-K4
	5	S202UP-K5		5	S204UP-K5
	6	S202UP-K6		6	S204UP-K6
	8	S202UP-K8		8	S204UP-K8
	10	S202UP-K10		10	S204UP-K10
	15	S202UP-K15		15	S204UP-K15
	16	S202UP-K16		16	S204UP-K16
20	S202UP-K20	20	S204UP-K20		
25	S202UP-K25	25	S204UP-K25		

### Tripping characteristic K

UL 489  
480Y/277 VAC  
10 kA

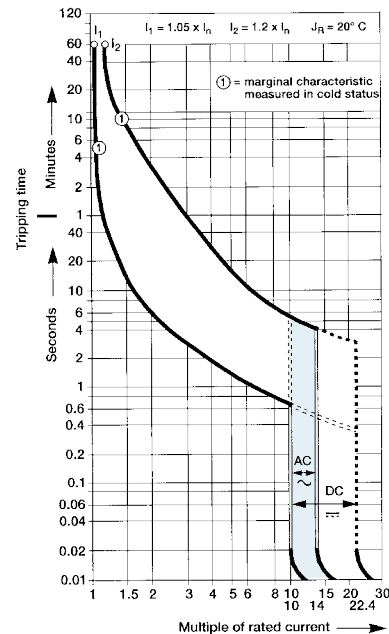
#### Inductive loads

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

#### Accessories & technical data

Accessories – See page 15.9 - 15.13

Technical data – See page 15.14 - 15.16



Note: This breaker for AC use only

# S200UP-Z, 480Y/277 VAC

Branch circuit protection  
UL 489, CSA 22.2 No. 5

# Z



S201UP-Z



S202UP-Z



S203UP-Z



S204UP-Z

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.5	S201UP-Z0.5	3	0.5	S203UP-Z0.5
	1	S201UP-Z1		1	S203UP-Z1
	1.6	S201UP-Z1.6		1.6	S203UP-Z1.6
	2	S201UP-Z2		2	S203UP-Z2
	3	S201UP-Z3		3	S203UP-Z3
	4	S201UP-Z4		4	S203UP-Z4
	5	S201UP-Z5		5	S203UP-Z5
	6	S201UP-Z6		6	S203UP-Z6
	8	S201UP-Z8		8	S203UP-Z8
	10	S201UP-Z10		10	S203UP-Z10
	15	S201UP-Z15		15	S203UP-Z15
	16	S201UP-Z16		16	S203UP-Z16
20	S201UP-Z20	20	S203UP-Z20		
25	S201UP-Z25	25	S203UP-Z25		
2	0.5	S202UP-Z0.5	4	0.5	S204UP-Z0.5
	1	S202UP-Z1		1	S204UP-Z1
	1.6	S202UP-Z1.6		1.6	S204UP-Z1.6
	2	S202UP-Z2		2	S204UP-Z2
	3	S202UP-Z3		3	S204UP-Z3
	4	S202UP-Z4		4	S204UP-Z4
	5	S202UP-Z5		5	S204UP-Z5
	6	S202UP-Z6		6	S204UP-Z6
	8	S202UP-Z8		8	S204UP-Z8
	10	S202UP-Z10		10	S204UP-Z10
	15	S202UP-Z15		15	S204UP-Z15
	16	S202UP-Z16		16	S204UP-Z16
20	S202UP-Z20	20	S204UP-Z20		
25	S202UP-Z25	25	S204UP-Z25		

### Tripping characteristic Z

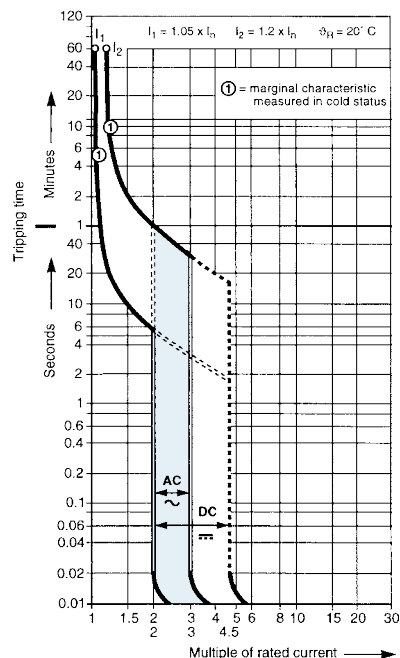
UL 489  
480Y/277 VAC  
10 kA

#### Resistive loads

- Z Curve
- Designed to provide maximum protection with a very low short circuit trip setting
- Example: semiconductors, control circuits

#### Accessories & technical data

Accessories – See page 15.9 - 15.13  
Technical data – See page 15.14 -15.16



Note: This breaker for AC use only



## SU200PR-K, 480Y/277 VAC, Ring tongue

Branch circuit protection

UL489, CSA 22.2 No.5

# K



SU201PR-K0.2



SU202PR-K0.2



SU203PR-K0.2



SU204PR-K0.2

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,2	SU201PR-K0.2	3	0,2	SU203PR-K0,2
	0,3	SU201PR-K0,3		0,3	SU203PR-K0,3
	0,5	SU201PR-K0,5		0,5	SU203PR-K0,5
	0,75	SU201PR-K0,75		0,75	SU203PR-K0,75
	1	SU201PR-K1		1	SU203PR-K1
	1,6	SU201PR-K1,6		1,6	SU203PR-K1,6
	2	SU201PR-K2		2	SU203PR-K2
	3	SU201PR-K3		3	SU203PR-K3
	4	SU201PR-K4		4	SU203PR-K4
	5	SU201PR-K5		5	SU203PR-K5
	6	SU201PR-K6		6	SU203PR-K6
	8	SU201PR-K8		8	SU203PR-K8
	10	SU201PR-K10		10	SU203PR-K10
	13	SU201PR-K13		13	SU203PR-K13
	15	SU201PR-K15		15	SU203PR-K15
	16	SU201PR-K16		16	SU203PR-K16
	20	SU201PR-K20		20	SU203PR-K20
	25	SU201PR-K25		25	SU203PR-K25
	30	SU201PR-K30		30	SU203PR-K30
32	SU201PR-K32	32	SU203PR-K32		
35	SU201PR-K35	35	SU203PR-K35		
40	SU201PR-K40	40	SU203PR-K40		
50	SU201PR-K50	50	SU203PR-K50		
60	SU201PR-K60	60	SU203PR-K60		
63	SU201PR-K63	63	SU203PR-K63		
2	0,2	SU202PR-K0.2	4	0,2	SU204PR-K0,2
	0,3	SU202PR-K0,3		0,3	SU204PR-K0,3
	0,5	SU202PR-K0,5		0,5	SU204PR-K0,5
	0,75	SU202PR-K0,75		0,75	SU204PR-K0,75
	1	SU202PR-K1		1	SU204PR-K1
	1,6	SU202PR-K1,6		1,6	SU204PR-K1,6
	2	SU202PR-K2		2	SU204PR-K2
	3	SU202PR-K3		3	SU204PR-K3
	4	SU202PR-K4		4	SU204PR-K4
	5	SU202PR-K5		5	SU204PR-K5
	6	SU202PR-K6		6	SU204PR-K6
	8	SU202PR-K8		8	SU204PR-K8
	10	SU202PR-K10		10	SU204PR-K10
	13	SU202PR-K13		13	SU204PR-K13
	15	SU202PR-K15		15	SU204PR-K15
	16	SU202PR-K16		16	SU204PR-K16
	20	SU202PR-K20		20	SU204PR-K20
	25	SU202PR-K25		25	SU204PR-K25
	30	SU202PR-K30		30	SU204PR-K30
32	SU202PR-K32	32 <td 35	SU204PR-K35		
35	SU202PR-K35	35	SU204PR-K35		
40	SU202PR-K40	40	SU204PR-K40		
50	SU202PR-K50	50	SU204PR-K50		
60	SU202PR-K60	60	SU204PR-K60		
63	SU202PR-K63	63	SU204PR-K63		

### Tripping characteristic K

UL 489  
480Y/277 VAC  
10 kA

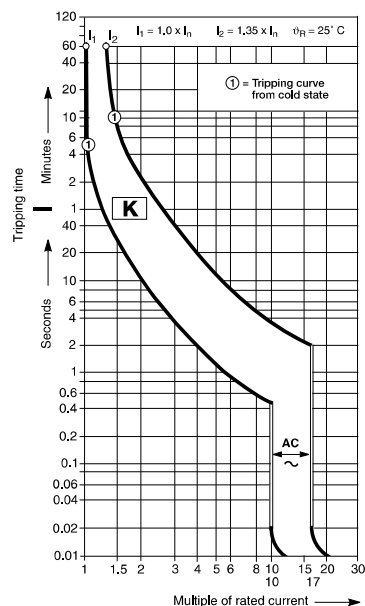
#### Inductive loads

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

#### Accessories & technical data

Accessories – See page 15.9 - 15.13

Technical data – See page 15.14 - 15.16





## S200UDC-K, 1 pole 60 VDC, 2 pole 125 VDC

Branch circuit protection

UL 489, CSA 22.2 No. 5

# K



S201UDC-K1



S202UDC-K1

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	1	S201UDC-K1	2	1	S202UDC-K1
	1,6	S201UDC-K1,6		1,6	S202UDC-K1,6
	2	S201UDC-K2		2	S202UDC-K2
	3	S201UDC-K3		3	S202UDC-K3
	4	S201UDC-K4		4	S202UDC-K4
	5	S201UDC-K5		5	S202UDC-K5
	6	S201UDC-K6		6	S202UDC-K6
	8	S201UDC-K8		8	S202UDC-K8
	10	S201UDC-K10		10	S202UDC-K10
	13	S201UDC-K13		13	S202UDC-K13
	15	S201UDC-K15		15	S202UDC-K15
	16	S201UDC-K16		16	S202UDC-K16
	20	S201UDC-K20		20	S202UDC-K20
	25	S201UDC-K25		25	S202UDC-K25
	30	S201UDC-K30		30	S202UDC-K30
	32	S201UDC-K32		32	S202UDC-K32
40	S201UDC-K40	40	S202UDC-K40		
50	S201UDC-K50	50	S202UDC-K50		
60	S201UDC-K60	60	S202UDC-K60		
63	S201UDC-K63	63	S202UDC-K63		

NOTE: Standard UL 489 (only DC; please note polarity of device).

### Tripping characteristic K

UL 489

480Y/277 VAC

14 kA

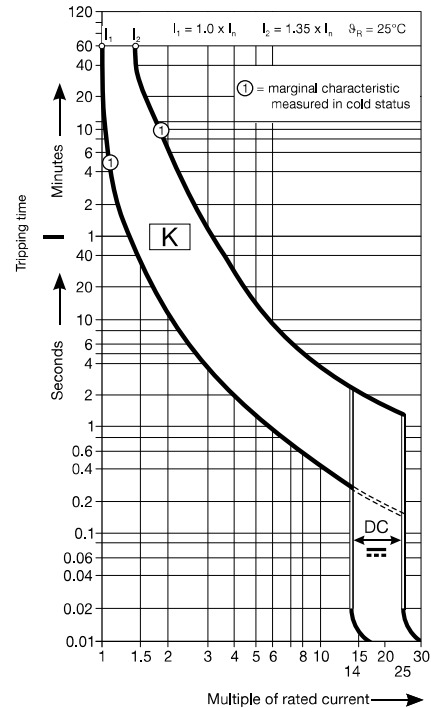
#### Inductive loads

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

#### Accessories & technical data

Accessories – See page 15.9 - 15.13

Technical data – See page 15.14 - 15.16



## S200UDC-Z, 1 pole 60 VDC, 2 pole 125 VDC

Branch circuit protection  
UL 489, CSA 22.2 No. 5

# Z



S201UDC-K1



S202UDC-K1

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	1	S201UDC-Z1	2	1	S202UDC-Z1
	1.6	S201UDC-Z1.6		1.6	S202UDC-Z1.6
	2	S201UDC-Z2		2	S202UDC-Z2
	3	S201UDC-Z3		3	S202UDC-Z3
	4	S201UDC-Z4		4	S202UDC-Z4
	5	S201UDC-Z5		5	S202UDC-Z5
	6	S201UDC-Z6		6	S202UDC-Z6
	8	S201UDC-Z8		8	S202UDC-Z8
	10	S201UDC-Z10		10	S202UDC-Z10
	13	S201UDC-Z13		13	S202UDC-Z13
	15	S201UDC-Z15		15	S202UDC-Z15
	16	S201UDC-Z16		16	S202UDC-Z16
	20	S201UDC-Z20		20	S202UDC-Z20
	25	S201UDC-Z25		25	S202UDC-Z25
	30	S201UDC-Z30		30	S202UDC-Z30
	32	S201UDC-Z32		32	S202UDC-Z32
40	S201UDC-Z40	40	S202UDC-Z40		
50	S201UDC-Z50	50	S202UDC-Z50		
60	S201UDC-Z60	60	S202UDC-Z60		
63	S201UDC-Z63	63	S202UDC-Z63		

NOTE: Standard UL 489 (only DC; please note polarity of device).

### Tripping characteristic Z

UL 489  
480Y/277 VAC  
14 kA

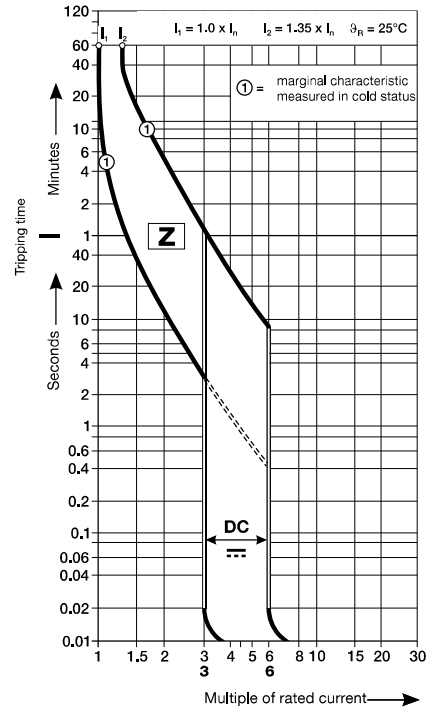
#### Resistive loads

- Z Curve
- Designed to provide maximum protection with a very low short circuit trip setting
- Example: semiconductors, control circuits

#### Accessories & technical data

Accessories – See page 15.9 - 15.13

Technical data – See page 15.14 -15.16



## Accessories

### S200U, S200UP, SU200PR & S200UDC UL 489, CSA 22.2 No. 5

#### Auxiliary contacts

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



S2C-H6RU

Description	Catalog number
For field mounting: right side	S2C-H6RU

#### Bell alarm

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.



S2C-S6RU

Description	Catalog number
For field mounting: right side	S2C-S6RU

#### Rotary operating mechanism

Allows “through the door” operation.



S2C-DH

Description	Catalog number
Handle mechanism	S2C-DH

#### Shunt trip

For remote tripping of breaker, a shunt trip device can be added to the MCB. The solenoid device opens the breaker after control voltage is applied.

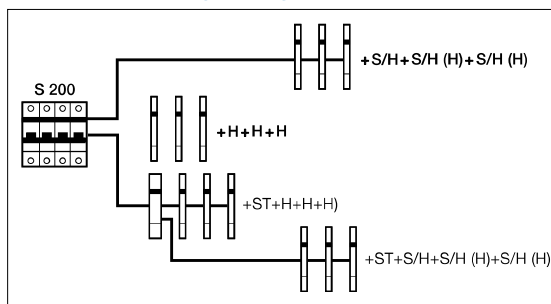


S2C-A1U

Description	Catalog number
For field mounting: right side 12...60 VAC/DC	S2C-A1U
For field mounting: right side 110...415 VAC 110...250 VDC	S2C-A2U

NOTE: For shafts and handles, refer to parts in the MCCB section.

#### Possible mounting arrangements of MCB accessories



#### Legend

Auxiliary contact	H
Bell alarm/Auxiliary contact	S/H
Bell alarm/Auxiliary contact used as auxiliary contact	S/H (H)
Shunt trip	ST

NOTE: Right hand mount accessories cannot be used in conjunction with S2C-DH, Rotary operating mechanism.

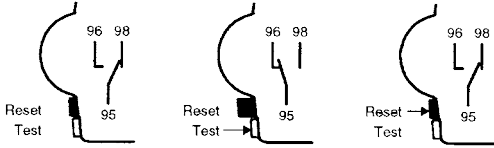
## Accessories

S200U, S200UP, S200UDC & SU200PR  
UL 489, CSA 22.2 No. 5

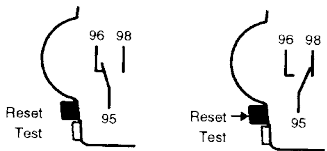
### Connection drawings

#### Bell alarm S2C-S6RU

In ON and OFF position after hand operation

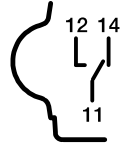


In OFF position after tripping



#### Auxiliary contact S2C-H6RU

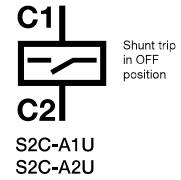
Auxiliary contact in ON position



Auxiliary contact in OFF position

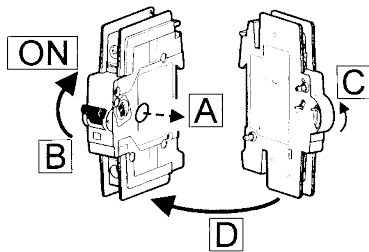


#### Shunt trip S2C-A...U



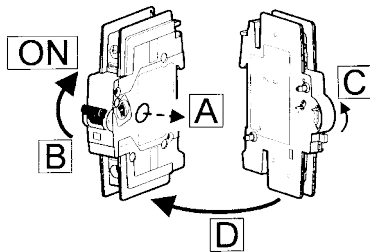
### Mounting

#### Addition of a S2C-H6RU auxiliary contact

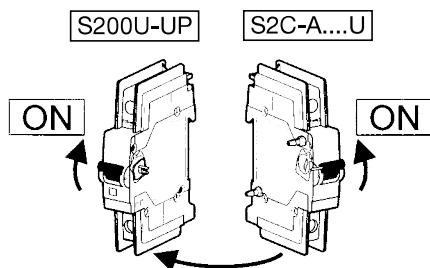


#### Addition of a S2C-S6RU bell alarm contact

15



#### Addition of a S2C-A..U shunt trip



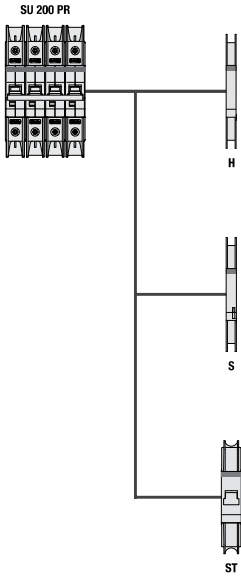
# Accessories

## SU200PR

### UL 489, CSA 22.2 No. 5

Miniature  
circuit breakers  
S200

### SU200PR Accessory overview



- H Auxiliary contact S2C-H6RU
- S Signal contact S2C-S6RU
- ST Shunt trip S2C-A...U

### SU200PR Instructions for use

**Ring Tongue Details**

Only  or  ring cable lugs	Rated voltage 480V/277 V AC	Insulated only 	<b>A</b> max. 11.0 mm (0.43")	<b>B</b> max. 12.2 mm (0.48")	Suitable for M5 (0.20")
	Rated voltage 240/240 V AC	Insulated only 	<b>A</b> max. 14.0 mm (0.55")	<b>B</b> max. 12.2 mm (0.48")	Suitable for M5 (0.20")

CU only  
 60/75°C  
 (140/167°F)

PZ 2 Torque: 2.8 Nm (25lb-in)

**Ring Tongue Terminal, Special purpose - Not for general use**

**Installation Instructions**

Please insert or withdraw the cable lug only when the screw is completely open.

Please make sure that the terminal screw penetrates the ring lug hole properly and completely during tightening.

Please ensure that the screw is securely tightened before applying any mechanical force on the cable / cable lug.

$< 2.8 \text{ Nm}$

$2.8 \text{ Nm}$

Do not apply abnormal downward pressure on the screw during tightening or loosening of the screw.

$F = \text{max. } 30 \text{ N}$

$F = \text{Maximum to operate}$

Please follow the Ring Tongue Details on the rear of this sheet.

## Accessories

### S200U, S200UP & S200UDC

### UL 489, CSA 22.2 No. 5

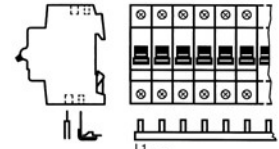
#### UL approved busbars UL file # E250145

UL 489 busbar cannot be cut.

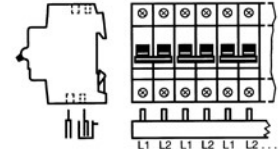


PS2/6/16 BP

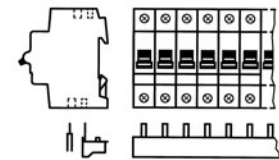
For use on:	Amp rating	Number of poles	Phases	Busbar length (mm)	Catalog number
S200U	80	6	1	103.2	PS 1/6/16BP
S200UP		12	1	208.8	PS 1/12/16BP
S201UDC		18	1	314.4	PS 1/18/16BP
S200U	80	6	2	103.2	PS 2/6/16BP
S200UP		12	2	208.8	PS 2/12/16BP
S201UDC		18	2	314.4	PS 2/18/16BP
S200U	80	6	3	103.2	PS 3/6/16BP
S200UP		12	3	208.8	PS 3/12/16BP
S201UDC		18	3	314.4	PS 3/18/16BP



L1 ...  
1 Phase



L1 L2 L1 L2 L1 L2 ...  
2 Phase



L1 L2 L3 L1 ...  
3 Phase



BSK-BP

#### Busbar tooth covers for BS...BP (UL 489)

Description	Catalog number
Covers three unused poles of busbar	BSK-BP



AST35/15BP

SZ-ESPBP

#### Feeder terminals for PS...BP (UL 489)

Description	Catalog number
Terminal, insulated with pin contact	AST35/15BP
Feeder Terminal, single-pole terminal, can be mounted side by side, feed on the pin of the busbar	SZ-ESK BP

# Technical data

## S200U, S200UP, SU200PR & S200UDC

### UL 489, CSA 22.2 No. 5

Miniature  
circuit breakers  
S200

Technical data	S200U	S200UP	SU200PR	S200UDC
Specifications:	UL 489, C 22.2 No. 5, IEC 60947-2			UL 489, VDE 0660
UL File-Number:	E 212323, UL, Current limiting series ratings			E212323, UL
No. of poles:	1, 2, 3 & 4			1, 2
Tripping characteristics:	K, Z		K	K, Z
Rated current:	0.2 (K) 0.5 (Z) ... 63 A	0.2 (K) 0.5 (Z) ... 25 A	0.2 ... 63A	1 - 63 A
Rated voltage:	Single pole: 240VAC Multi pole: 240VAC	Single pole: 277VAC Multi pole: 480Y/277VAC	Single pole: 277VAC (<=35A); 240VAC (>35A) Multi pole: 480Y/277VAC (<=35A); 240VAC (>35A)	1P: 60 V DC 2P: 125 V DC Ⓣ
Short circuit capacity:	10 kA			14 kA
Frequency:	50/60 Hz			50/60 Hz
Degree of protection:	IP 20		IP20, IP40 in enclosure w/cover	IP 20
Mounting position:	Vertical and horizontal		Any	Vertical and horizontal
Fixing:	35 mm DIN rail			35 mm DIN rail
Clamps only for Cu:	18-4 AWG (0.75 ... 25 mm <sup>2</sup> )			18-4 AWG (0.75 ... 25 mm <sup>2</sup> )
Service life, mech. and at rated load:	20,000 operations		6000 operations (AC) 1 cycle (1s-ON, 9S-OFF)	20,000 operations
Tightening torque:	25 in. lbs (2.8 Nm)			25 in. lbs (2.8 Nm)
Ambient temperature:	- 25 °C ... + 55 °C/- 13 °F ... + 131 °F			- 25 °C ... + 55 °C/- 13 °F ... + 131 °F
Shock resistance:	30 g at least 2 impacts shock, duration 13 ms		25 g, 2 shocks - 13ms	30 g at least 2 impacts shock, duration 13 ms

### Auxiliary contact S2C-H6RU and S2C-S6RU

Rated current:	10
Rated voltage AC / DC:	24
Contact:	1 pole double throw
Connection capacity mm <sup>2</sup>	18 - 14 AWG (0.75...2,5 mm <sup>2</sup> )
Tightening torque:	11 in.lbs (1.2 Nm)
Shock resistance acc. to DIN IEC 68-2-6:	5 g, 20 frequency cycles 5...150...5 Hz at 24 VAC/DC, 5 mA auto-reclosing < 10 ms
Mechanical service life:	10,000 operations

Shunt trip		Type	S2C-A1U	S2C-A2U
Rated voltage	AC	V	12 ... 60	110 ... 415
	DC	V	12 ... 60	110 ... 250
Max. release duration		ms	<10	<10
Min. release voltage	AC	V	7	55
	DC	V	10	80
Consumption on release	AC	VA	40 ... 200	55 ... 210
	DC	VA	40 ... 200	55 ... 110
Coil resistance		Ω	3,7	225
Terminals		AWG/mm <sup>2</sup>	18...6 / 0,75 - 16	18...6 / 0,75 - 16
Tightening torque		in.lbs/Nm	18 / 2	18 / 2

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Ⓣ Poles connected in series.



## Technical data

### S200U, S200UP, SU200PR & S200UDC

#### UL 489, CSA 22.2 No. 5

#### Internal resistance and power loss

Internal resistance per pole in mΩ, power loss per pole in W.

Type	Rated current A	Device series K		Device series Z	
		mΩ	W	mΩ	W
S200U S200UP	0,2	42500	1,7	–	–
	0,3	20000	1,8	–	–
	0,5	6340	1,6	10100	2,5
	0,75	2500	1,4	–	–
	1	1400	1,4	2270	2,3
	1,6	625	1,6	1100	2,8
	2	460	1,8	619	2,5
	3	211	1,9	211	1,9
	4	163	2,6	163	2,6
	6	67	2,4	104	3,7
	8	45	2,9	55	3,5
	10	19	1,9	21	2,1
	13	–	–	–	–
	16	8,2	2,1	10,9	2,8
	20	7,3	2,9	7,3	2,9
	25	5,6	3,5	5,6	3,5
	32	4,1	4,2	4,1	4,2
	40	4,0	6,4	4,0	6,4
50	1,2	3,0	1,8	4,4	
63	1,3	5,2	1,3	5,2	

Type	Rated current A	Device series K		Device series Z	
		mΩ	W	mΩ	W
S200UDC	1	1400	1,4	2270	2,3
	1,6	625	1,6	1100	2,8
	2	460	1,8	619	2,5
	3	211	1,9	211	1,9
	4	153	2,6	163	2,5
	6	67	2,4	104	3,7
	8	45	2,9	55	3,5
	10	19	1,9	21	2,1
	13	–	–	–	–
	16	8,2	2,1	10,9	2,8
	20	7,3	2,0	7,3	2,9
	25	5,6	3,5	5,6	3,5
	32	4,1	4,2	4,1	4,2
	40	4,0	6,4	4,0	6,4
	50	1,2	3,0	1,8	4,4
	63	1,3	5,2	1,3	5,2

#### SU200PR

Rated current A	Internal resistance per pole <sup>4)</sup>	
	mΩ	Power loss per pole <sup>4)</sup> W
0,2	25300	1,01
0,3	13700	1,23
0,5	4740	1,19
0,75	2067	1,16
1	1270	1,27
1,5	610	1,56
2	442	1,77
3	140	1,26
4	109	1,75
5	50	1,26
6	54	1,94
8	22	1,41
10	18,2	1,82
13	14,8	2,50
15	8,1	1,83
16	11,1	2,83
20	8,5	3,40
25	5,5	3,43
30	3,8	3,39
32	4,6	4,70
35	3,9	4,76
40	2,8	4,40
50	1,7	4,25
60	1,7	6,18
63	1,9	7,56

<sup>4)</sup> Internal resistances and power loss are subject to application-specific and environment-specific conditions and are therefore to be considered as typical values.

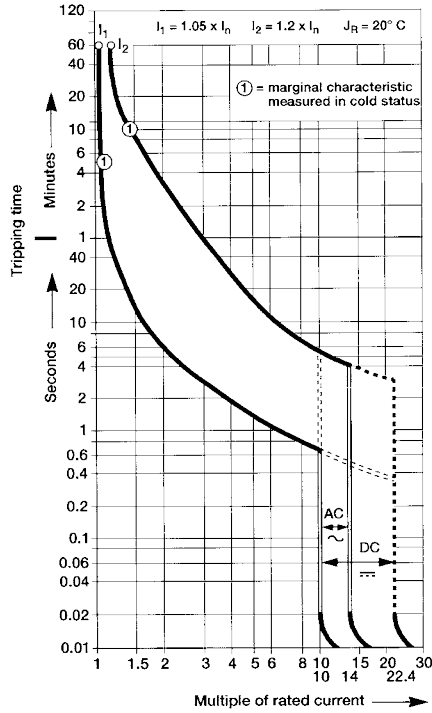
# Technical data

## S200U, S200UP, SU200PR & S200UDC

### UL 489, CSA 22.2 No. 5

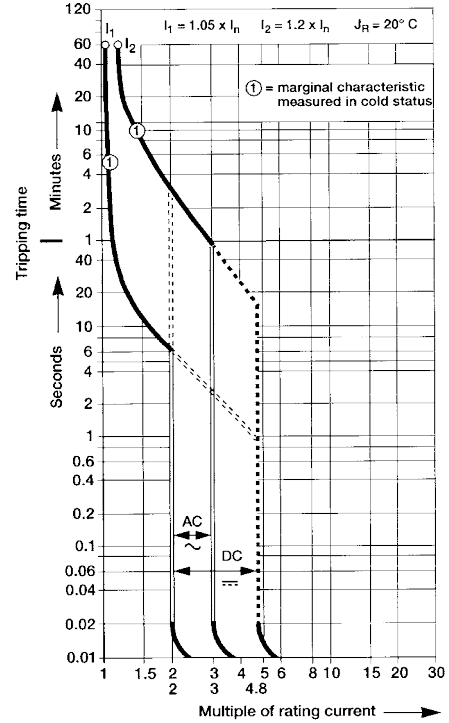
#### Tripping characteristic K (68 °F)

Breaker calibration temperature 68°F  
See chart below for temperature DeRating



#### Tripping characteristic Z (68 °F)

Breaker calibration temperature 68°F  
See chart below for temperature DeRating



#### Temperature derating

Max. operating current values depending on the ambient temperature for a circuit-breaker of characteristics type K and Z

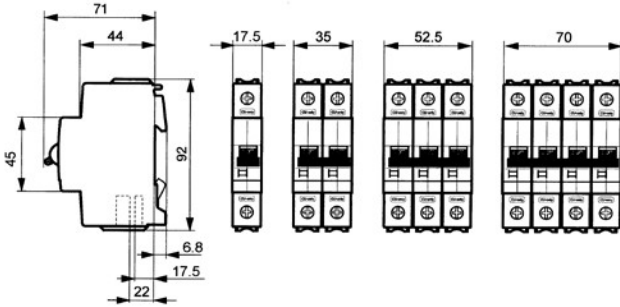
K and Z	Ambient temperature T (°C/°F)												
	-40/-40	-30/-22	-20/-4	-10/14	0/32	10/50	20/68	30/86	40/104	50/122	60/140	70/158	
$I_n$ (A)	0.66	0.64	0.61	0.59	0.56	0.53	0.50	0.47	0.43	0.40	0.35	0.31	
0.5	1.32	1.27	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61	
1.0	2.12	2.04	1.96	1.88	1.79	1.70	1.60	1.50	1.39	1.26	1.13	0.98	
1.6	2.65	2.55	2.45	2.35	2.24	2.12	2.00	1.87	1.73	1.58	1.41	1.22	
2.0	4.0	3.8	3.7	3.5	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.8	
3.0	5.3	5.1	4.9	4.7	4.5	4.2	4.0	3.7	3.5	3.2	2.8	2.4	
4.0	7.9	7.6	7.3	7.0	6.7	6.4	6.0	5.6	5.2	4.7	4.2	3.7	
6.0	10.8	10.2	9.8	9.4	8.9	8.5	8.0	7.5	6.9	6.3	5.7	4.9	
8.0	13.2	12.7	12.2	11.7	11.2	10.6	10.0	9.4	8.7	7.9	7.1	6.1	
10.0	17.2	16.6	15.9	15.2	14.5	13.8	13.0	12.2	11.3	10.3	9.2	8.0	
13.0	21.2	20.4	19.6	18.8	17.9	17.0	16.0	15.0	13.9	12.6	11.3	9.8	
16.0	26.5	25.5	24.5	23.5	22.4	21.2	20.0	18.7	17.3	15.8	14.1	12.2	
20.0	33.1	31.9	30.6	29.3	28.0	26.5	25.0	23.4	21.7	19.8	17.7	15.3	
25.0	42.3	40.8	39.2	37.5	35.8	33.9	32.0	29.9	27.7	25.3	22.6	19.6	
32.0	52.9	51.0	49.0	46.9	44.7	42.4	40.0	37.4	34.6	31.6	28.3	24.5	
40.0	66.1	63.7	61.2	58.6	55.9	53.0	50.0	46.8	43.3	39.5	35.4	30.6	
50.0	83.3	80.3	77.2	73.9	70.4	66.8	63.0	58.9	54.6	49.8	44.5	38.6	

## Approximate dimensions

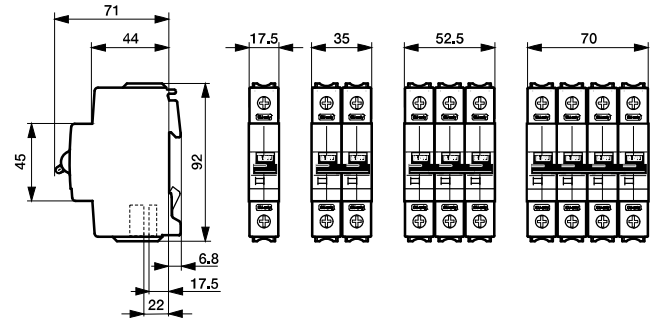
S200U, S200UP, S200UDC & SU200PR  
UL 489, CSA 22.2 No. 5

### Approximate dimensions in mm

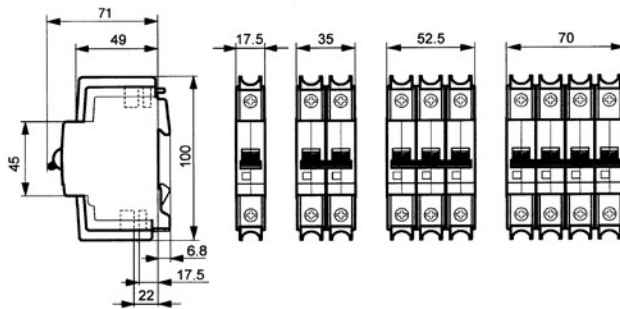
#### S200U



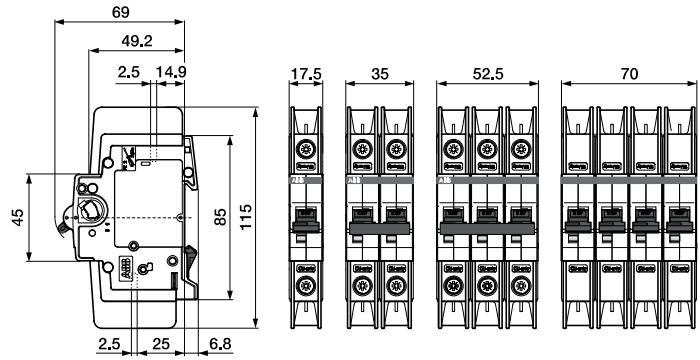
#### S200UDC



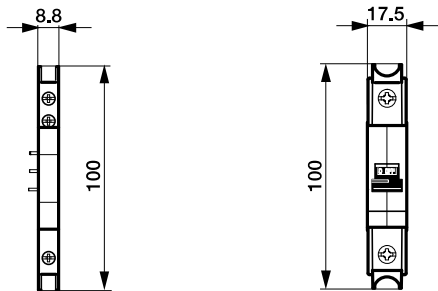
#### S200UP



#### SU200PR



#### S2C-H6RU, S2C-S6RU S2C-A..U





## S200

### Supplementary protective devices UL 1077 Series



#### Description

The S200 UL 1077 Series miniature supplementary protector offers a compact solution for protection requirements. The S200 devices are DIN rail mounted.

The S200 is available with application-specific trip characteristics to provide maximum circuit protection.

The supplementary protectors offer thermal-magnetic trip protection according to B, C, D, K and Z characteristics.

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

#### Features

- Energy limiting
- Fast breaking time (2.3 – 2.5 ms)
- Bus connection system
- Wide range of accessories
- Available with variable depth handle mechanism
- CE certified and marked
- DIN rail mounting
- Finger safe terminals
- Multi-function terminals
- Suitable for reverse feed
- UL1077 Recognized supplemental protective device. UL file # E76126

	S200	S200P	S200PR	S280UC
<b>Amperage</b>	0.5 – 63 A	0.2 – 63 A	0.2 – 63A	0.2 – 63 A
<b>Voltage</b>	480Y/277 VAC	480Y/277 VAC	240 VAC	250/500 VDC
<b>Poles</b>	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4
<b>Trip characteristics</b>	B, C, D, K	B, C, D, K, Z	K	K, Z
<b>Interrupting ratings</b>	6 kA: IEC 60898 6 kA: UL 1077 6 kA: CSA 22.2 No. 235	Up to 25kA: IEC 60947-2 10kA: UL 1077	10kA: UL1077 10kA: CSA 22.2 No.235	Up to 6kA: IEC 60947-2 10kA: UL 1077 6 kA: CSA 22.2 No. 235
<b>Auxiliary contacts</b>	Yes	Yes	Yes	Yes
<b>Bell alarm</b>	Yes	Yes	Yes	Yes
<b>Shunt trip</b>	Yes	Yes	Yes	Yes
<b>Undervoltage release</b>	Yes	Yes	Yes	Yes
<b>Bus bar</b>	Yes	Yes	No	Yes

## S200-B, 480Y/277 VAC Supplemental protectors UL 1077, CSA 22.2, No. 235

# B



S201-B



S202-B



S203-B



S204-B



S201-BNA



S203-BNA

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	6	S201-B6	3	6	S203-B6
	10	S201-B10		10	S203-B10
	13	S201-B13		13	S203-B13
	16	S201-B16		16	S203-B16
	20	S201-B20		20	S203-B20
	25	S201-B25		25	S203-B25
	32	S201-B32		32	S203-B32
	40	S201-B40		40	S203-B40
	50	S201-B50		50	S203-B50
	63	S201-B63		63	S203-B63
1 + NA	6	S201-B6NA	3 + NA	6	S203-B6NA
	10	S201-B10NA		10	S203-B10NA
	13	S201-B13NA		13	S203-B13NA
	16	S201-B16NA		16	S203-B16NA
	20	S201-B20NA		20	S203-B20NA
	25	S201-B25NA		25	S203-B25NA
	32	S201-B32NA		32	S203-B32NA
	40	S201-B40NA		40	S203-B40NA
	50	S201-B50NA		50	S203-B50NA
	63	S201-B63NA		63	S203-B63NA
2	6	S202-B6	4	6	S204-B6
	10	S202-B10		10	S204-B10
	13	S202-B13		13	S204-B13
	16	S202-B16		16	S204-B16
	20	S202-B20		20	S204-B20
	25	S202-B25		25	S204-B25
	32	S202-B32		32	S204-B32
	40	S202-B40		40	S204-B40
	50	S202-B50		50	S204-B50
	63	S202-B63		63	S204-B63

### Tripping characteristic B

UL 1077  
480Y/277VAC  
6 kA

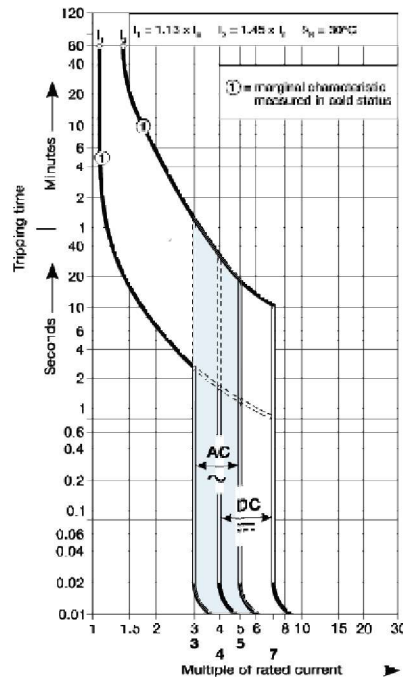
#### Resistive loads

- B Curve
- Designed for use in cable protection applications
- Example: control circuits, lighting

#### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



Note: Switching neutral is noted by "NA" in the catalog number.

# S200-C, 480Y/277 VAC

## Supplemental protectors

### UL 1077, CSA 22.2, No. 235

C



S201-C



S202-C



S203-C



S204-C



S201-CNA



S203-CNA

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,5	S201-C0,5	3	0,5	S203-C0,5
	1	S201-C1		1	S203-C1
	1,6	S201-C1,6		1,6	S203-C1,6
	2	S201-C2		2	S203-C2
	3	S201-C3		3	S203-C3
	4	S201-C4		4	S203-C4
	6	S201-C6		6	S203-C6
	8	S201-C8		8	S203-C8
	10	S201-C10		10	S203-C10
	13	S201-C13		13	S203-C13
	16	S201-C16		16	S203-C16
	20	S201-C20		20	S203-C20
	25	S201-C25		25	S203-C25
	32	S201-C32		32	S203-C32
40	S201-C40	40	S203-C40		
50	S201-C50	50	S203-C50		
63	S201-C63	63	S203-C63		
1 + NA	0,5	S201-C0,5NA	3 + NA	0,5	S203-C0,5NA
	1	S201-C1NA		1	S203-C1NA
	1,6	S201-C1,6NA		1,6	S203-C1,6NA
	2	S201-C2NA		2	S203-C2NA
	3	S201-C3NA		3	S203-C3NA
	4	S201-C4NA		4	S203-C4NA
	6	S201-C6NA		6	S203-C6NA
	8	S201-C8NA		8	S203-C8NA
	10	S201-C10NA		10	S203-C10NA
	13	S201-C13NA		13	S203-C13NA
	16	S201-C16NA		16	S203-C16NA
	20	S201-C20NA		20	S203-C20NA
	25	S201-C25NA		25	S203-C25NA
	32	S201-C32NA		32	S203-C32NA
40	S201-C40NA	40	S203-C40NA		
50	S201-C50NA	50	S203-C50NA		
63	S201-C63NA	63	S203-C63NA		
2	0,5	S202-C0,5	4	0,5	S204-C0,5
	1	S202-C1		1	S204-C1
	1,6	S202-C1,6		1,6	S204-C1,6
	2	S202-C2		2	S204-C2
	3	S202-C3		3	S204-C3
	4	S202-C4		4	S204-C4
	6	S202-C6		6	S204-C6
	8	S202-C8		8	S204-C8
	10	S202-C10		10	S204-C10
	13	S202-C13		13	S204-C13
	16	S202-C16		16	S204-C16
	20	S202-C20		20	S204-C20
	25	S202-C25		25	S204-C25
	32	S202-C32		32	S204-C32
40	S202-C40	40	S204-C40		
50	S202-C50	50	S204-C50		
63	S202-C63	63	S204-C63		

### Tripping characteristic C

UL 1077  
480Y/277 VAC  
6 kA

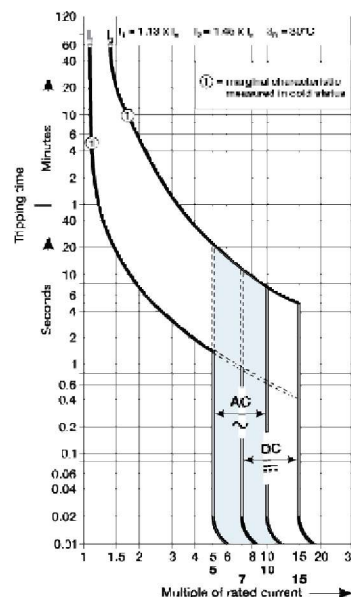
#### Resistive loads

- C Curve
- Designed for use with medium magnetic start up currents
- Example: lighting, control panels

#### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



Note: Switching neutral is noted by "NA" in the catalog number.

## S200-D, 480Y/277 VAC Supplemental protectors UL 1077, CSA 22.2, No. 235

# D



S201-D



S202-D



S203-D



S204-D



S201-DNA



S203-DNA

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.5	S201-D0.5	3	0.5	S203-D0.5
	1	S201-D1		1	S203-D1
	1.6	S201-D1.6		1.6	S203-D1.6
	2	S201-D2		2	S203-D2
	3	S201-D3		3	S203-D3
	4	S201-D4		4	S203-D4
	6	S201-D6		6	S203-D6
	8	S201-D8		8	S203-D8
	10	S201-D10		10	S203-D10
	13	S201-D13		13	S203-D13
	16	S201-D16		16	S203-D16
	20	S201-D20		20	S203-D20
	25	S201-D25		25	S203-D25
	32	S201-D32		32	S203-D32
1 + NA	0.5	S201-D0.5NA	3 + NA	0.5	S203-D0.5NA
	1	S201-D1NA		1	S203-D1NA
	1.6	S201-D1.6NA		1.6	S203-D1.6NA
	2	S201-D2NA		2	S203-D2NA
	3	S201-D3NA		3	S203-D3NA
	4	S201-D4NA		4	S203-D4NA
	6	S201-D6NA		6	S203-D6NA
	8	S201-D8NA		8	S203-D8NA
	10	S201-D10NA		10	S203-D10NA
	13	S201-D13NA		13	S203-D13NA
	16	S201-D16NA		16	S203-D16NA
	20	S201-D20NA		20	S203-D20NA
	25	S201-D25NA		25	S203-D25NA
	32	S201-D32NA		32	S203-D32NA
2	0.5	S202-D0.5	4	0.5	S204-D0.5
	1	S202-D1		1	S204-D1
	1.6	S202-D1.6		1.6	S204-D1.6
	2	S202-D2		2	S204-D2
	3	S202-D3		3	S204-D3
	4	S202-D4		4	S204-D4
	6	S202-D6		6	S204-D6
	8	S202-D8		8	S204-D8
	10	S202-D10		10	S204-D10
	13	S202-D13		13	S204-D13
	16	S202-D16		16	S204-D16
	20	S202-D20		20	S204-D20
	25	S202-D25		25	S204-D25
	32	S202-D32		32	S204-D32
2	0.5	S202-D0.5NA	4	0.5	S204-D0.5NA
	1	S202-D1NA		1	S204-D1NA
	1.6	S202-D1.6NA		1.6	S204-D1.6NA
	2	S202-D2NA		2	S204-D2NA
	3	S202-D3NA		3	S204-D3NA
	4	S202-D4NA		4	S204-D4NA
	6	S202-D6NA		6	S204-D6NA
	8	S202-D8NA		8	S204-D8NA
	10	S202-D10NA		10	S204-D10NA
	13	S202-D13NA		13	S204-D13NA
	16	S202-D16NA		16	S204-D16NA
	20	S202-D20NA		20	S204-D20NA
	25	S202-D25NA		25	S204-D25NA
	32	S202-D32NA		32	S204-D32NA

### Tripping characteristic D

UL 1077  
480Y/277 VAC  
6 kA

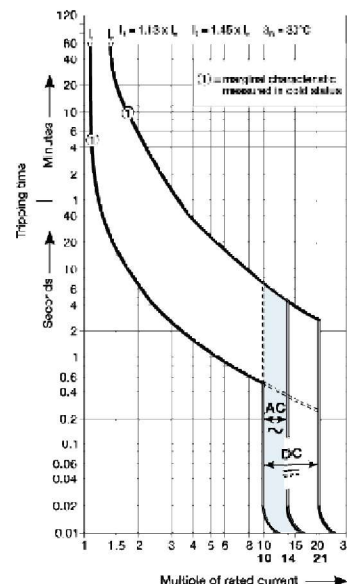
#### Inductive loads

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

#### Accessories & technical data

**Accessories** – See page 15.31 - 15.34

**Technical data** – See page 15.35 - 15.36



Note: Switching neutral is noted by "NA" in the catalog number.



# S200-K, 480Y/277 VAC

## Supplemental protectors

### UL 1077, CSA 22.2, No. 235

# K



S201-K



S202-K



S203-K



S204-K



S201-KNA



S203-KNA

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.5	S201-K0.5	3	0.5	S203-K0.5
	1	S201-K1		1	S203-K1
	1.6	S201-K1.6		1.6	S203-K1.6
	2	S201-K2		2	S203-K2
	3	S201-K3		3	S203-K3
	4	S201-K4		4	S203-K4
	5	S201-K5		5	S203-K5
	6	S201-K6		6	S203-K6
	8	S201-K8		8	S203-K8
	10	S201-K10		10	S203-K10
	13	S201-K13		13	S203-K13
	15	S201-K15		15	S203-K15
	16	S201-K16		16	S203-K16
	20	S201-K20		20	S203-K20
	25	S201-K25		25	S203-K25
1 + NA	0.5	S201-K0.5NA	3 + NA	0.5	S203-K0.5NA
	1	S201-K1NA		1	S203-K1NA
	1.6	S201-K1.6NA		1.6	S203-K1.6NA
	2	S201-K2NA		2	S203-K2NA
	3	S201-K3NA		3	S203-K3NA
	4	S201-K4NA		4	S203-K4NA
	6	S201-K6NA		6	S203-K6NA
8	S201-K8NA	8	S203-K8NA		
10	S201-K10NA	10	S203-K10NA		
13	S201-K13NA	13	S203-K13NA		
16	S201-K16NA	16	S203-K16NA		
20	S201-K20NA	20	S203-K20NA		
25	S201-K25NA	25	S203-K25NA		
2	0.5	S202-K0.5	4	0.5	S204-K0.5
	1	S202-K1		1	S204-K1
	1.6	S202-K1.6		1.6	S204-K1.6
	2	S202-K2		2	S204-K2
	3	S202-K3		3	S204-K3
	4	S202-K4		4	S204-K4
	5	S202-K5		5	S204-K5
6	S202-K6	6	S204-K6		
8	S202-K8	8	S204-K8		
10	S202-K10	10	S204-K10		
13	S202-K13	13	S204-K13		
15	S202-K15	15	S204-K15		
16	S202-K16	16	S204-K16		
20	S202-K20	20	S204-K20		
25	S202-K25	25	S204-K25		
2	32	S202-K32	4	32	S204-K32
	40	S202-K40		40	S204-K40
	50	S202-K50		50	S204-K50
	60	S202-K60		60	S204-K60
	63	S202-K63		63	S204-K63

### Tripping characteristic K

UL 1077  
480Y/277 VAC  
6 kA

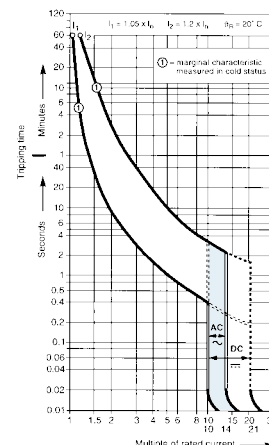
#### Inductive loads

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

#### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



Note: Switching-neutral is noted by "NA" in the catalog number.

## S200-Z, 480Y/277 VAC Supplemental protectors UL 1077, CSA 22.2, No. 235

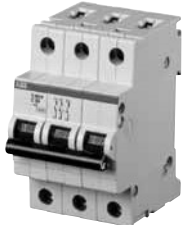
# Z



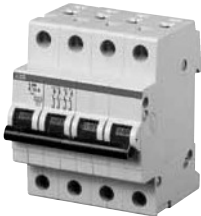
S201-Z0.5



S202-Z0.5



S203-Z0.5



S204-Z0.5

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,5	S201-Z0.5	3	0,5	S203-Z0.5
	1	S201-Z1		1	S203-Z1
	1,6	S201-Z1.6		1,6	S203-Z1.6
	2	S201-Z2		2	S203-Z2
	3	S201-Z3		3	S203-Z3
	4	S201-Z4		4	S203-Z4
	6	S201-Z6		6	S203-Z6
	10	S201-Z10		10	S203-Z10
	13	S201-Z13		13	S203-Z13
	16	S201-Z16		16	S203-Z16
	20	S201-Z20		20	S203-Z20
	25	S201-Z25		25	S203-Z25
	32	S201-Z32		32	S203-Z32
40	S201-Z40	40	S203-Z40		
50	S201-Z50	50	S203-Z50		
63	S201-Z63	63	S203-Z63		
2	0,5	S202-Z0.5	4	0,5	S204-Z0.5
	1	S202-Z1		1	S204-Z1
	1,6	S202-Z1.6		1,6	S204-Z1.6
	2	S202-Z2		2	S204-Z2
	3	S202-Z3		3	S204-Z3
	4	S202-Z4		4	S204-Z4
	6	S202-Z6		6	S204-Z6
	10	S202-Z10		10	S204-Z10
	13	S202-Z13		13	S204-Z13
	16	S202-Z16		16	S204-Z16
	20	S202-Z20		20	S204-Z20
	25	S202-Z25		25	S204-Z25
	32	S202-Z32		32	S204-Z32
40	S202-Z40	40	S204-Z40		
50	S202-Z50	50	S204-Z50		
63	S202-Z63	63	S204-Z63		

### Tripping characteristic Z

UL 1077  
480Y/277VAC  
6 kA

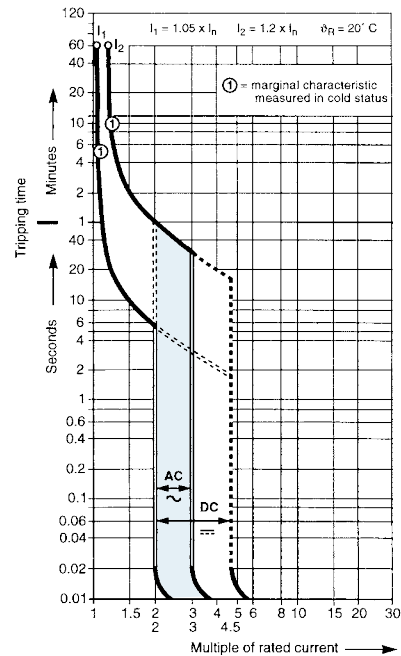
#### Resistive loads

- Z Curve
- Designed to provide maximum protection with a very low short circuit trip setting
- Example: semiconductors

### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



## S200P-B, 480Y/277 VAC

### Supplemental protectors

### UL 1077, CSA 22.2, No. 235

# B



S210P-B6



S210P-B6



S210P-B6



S210P-B6

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	6	S201P-B6	3	6	S203P-B6
	10	S201P-B10		10	S203P-B10
	13	S201P-B13		13	S203P-B13
	16	S201P-B16		16	S203P-B16
	20	S201P-B20		20	S203P-B20
	25	S201P-B25		25	S203P-B25
	32	S201P-B32		32	S203P-B32
	40	S201P-B40		40	S203P-B40
2	50	S201P-B50	4	50	S203P-B50
	63	S201P-B63		63	S203P-B63
	6	S202P-B6		6	S204P-B6
	10	S202P-B10		10	S204P-B10
	13	S202P-B13		13	S204P-B13
	16	S202P-B16		16	S204P-B16
	20	S202P-B20		20	S204P-B20
	25	S202P-B25		25	S204P-B25
32	S202P-B32	32	S204P-B32		
40	S202P-B40	40	S204P-B40		
50	S202P-B50	50	S204P-B50		
63	S202P-B63	63	S204P-B63		

#### Tripping characteristic B

UL 1077  
480Y/277 VAC  
10 kA

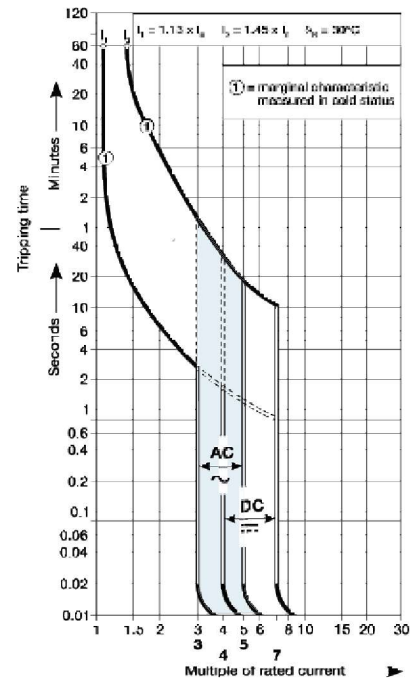
#### Resistive loads

- B Curve
- Designed for use in cable protection applications
- Example: Control circuits, lighting

#### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



## S200P-C, 480Y/277 VAC

### Supplemental protectors

### UL 1077, CSA 22.2, No. 235

C



S210P-B6



S210P-B6



S210P-B6

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.5	S201P-C0,5	3	0.5	S203P-C0,5
	1	S201P-C1		1	S203P-C1
	1.6	S201P-C1,6		1.6	S203P-C1,6
	2	S201P-C2		2	S203P-C2
	3	S201P-C3		3	S203P-C3
	4	S201P-C4		4	S203P-C4
	6	S201P-C6		6	S203P-C6
	8	S201P-C8		8	S203P-C8
	10	S201P-C10		10	S203P-C10
	13	S201P-C13		13	S203P-C13
	16	S201P-C16		16	S203P-C16
	20	S201P-C20		20	S203P-C20
	25	S201P-C25		25	S203P-C25
	32	S201P-C32		32	S203P-C32
40	S201P-C40	40	S203P-C40		
50	S201P-C50	50	S203P-C50		
63	S201P-C63	63	S203P-C63		
2	0.5	S202P-C0,5	3	0.5	S203P-C0,5
	1	S202P-C1		1	S203P-C1
	1.6	S202P-C1,6		1.6	S203P-C1,6
	2	S202P-C2		2	S203P-C2
	3	S202P-C3		3	S203P-C3
	4	S202P-C4		4	S203P-C4
	6	S202P-C6		6	S203P-C6
	8	S202P-C8		8	S203P-C8
	10	S202P-C10		10	S203P-C10
	13	S202P-C13		13	S203P-C13
	16	S202P-C16		16	S203P-C16
	20	S202P-C20		20	S203P-C20
	25	S202P-C25		25	S203P-C25
	32	S202P-C32		32	S203P-C32
40	S202P-C40	40	S203P-C40		
50	S202P-C50	50	S203P-C50		
63	S202P-C63	63	S203P-C63		

#### Tripping characteristic C

UL 1077  
480Y/277 VAC  
10 kA

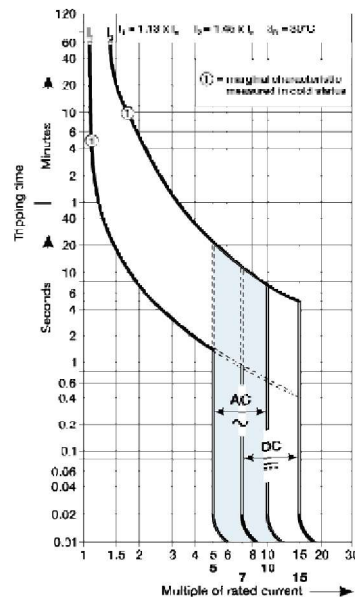
#### Resistive loads

- C Curve
- Designed for use with medium magnetic start up currents
- Example: Lighting, control panels

#### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



## S200P-D, 480Y/277 VAC

### Supplemental protectors

### UL 1077, CSA 22.2, No. 235

# D



S201P-D0.5



S202P-D0.5



S203P-D0.5

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,5	S201P-D0,5	3	0,5	S203P-D0,5
	1	S201P-D1		1	S203P-D1
	1.6	S201P-D1.6		1.6	S203P-D1.6
	2	S201P-D2		2	S203P-D2
	3	S201P-D3		3	S203P-D3
	4	S201P-D4		4	S203P-D4
	6	S201P-D6		6	S203P-D6
	8	S201P-D8		8	S203P-D8
	10	S201P-D10		10	S203P-D10
	13	S201P-D13		13	S203P-D13
	16	S201P-D16		16	S203P-D16
	20	S201P-D10		20	S203P-D10
	2	0,5		S202P-D0,5	
1		S202P-D1			
1.6		S202P-D1.6			
2		S202P-D2			
3		S202P-D3			
4		S202P-D4			
6		S202P-D6			
8		S202P-D8			
10		S202P-D10			
13		S202P-D13			
16		S202P-D16			
20		S202P-D10			
25		S202P-D25			
32	S202P-D32				
40	S202P-D40				
50	S202P-D50				
63	S202P-D63				

#### Tripping characteristic D

UL 1077  
480Y/277 VAC  
10 kA

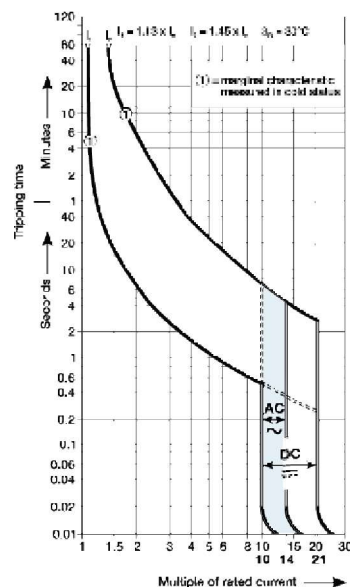
#### Inductive loads

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

#### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



## S200P-K, 480Y/277 VAC Supplemental protectors UL 1077, CSA 22.2, No. 235

# K



S201P-K



S202P-K



S203P-K

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,2	S201P-K0,2	3	0,2	S203P-K0,2
	0,3	S201P-K0,3		0,3	S203P-K0,3
	0,5	S201P-K0,5		0,5	S203P-K0,5
	0,75	S201P-K0,75		0,75	S203P-K0,75
	1	S201P-K1		1	S203P-K1
	1,6	S201P-K1,6		1,6	S203P-K1,6
	2	S201P-K2		2	S203P-K2
	3	S201P-K3		3	S203P-K3
	4	S201P-K4		4	S203P-K4
	6	S201P-K6		6	S203P-K6
	8	S201P-K8		8	S203P-K8
	10	S201P-K10		10	S203P-K10
	13	S201P-K13		13	S203P-K13
	16	S201P-K16		16	S203P-K16
	20	S201P-K20		20	S203P-K20
	25	S201P-K25		25	S203P-K25
32	S201P-K32	32	S203P-K32		
2	40	S201P-K40	40	S203P-K40	
	50	S201P-K50	50	S203P-K50	
	63	S201P-K63	63	S203P-K63	
	0,2	S202P-K0,2			
	0,3	S202P-K0,3			
	0,5	S202P-K0,5			
2	0,75	S202P-K0,75			
	1	S202P-K1			
	1,6	S202P-K1,6			
	2	S202P-K2			
	3	S202P-K3			
	4	S202P-K4			
	6	S202P-K6			
	8	S202P-K8			
	10	S202P-K10			
	13	S202P-K13			
	16	S202P-K16			
	20	S202P-K20			
	25	S202P-K25			
	32	S202P-K32			
	40	S202P-K40			
	50	S202P-K50			
63	S202P-K63				

### Tripping characteristic K

UL 1077  
480Y/277 VAC  
10 kA

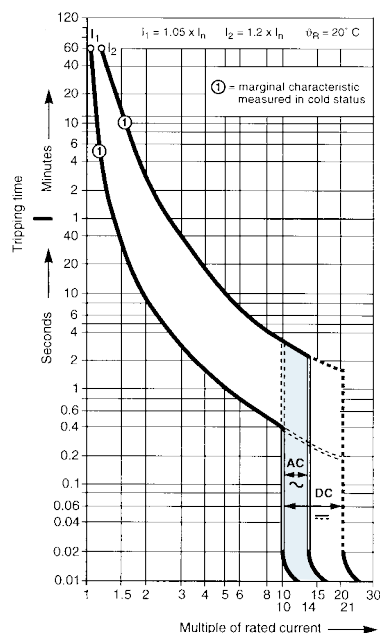
#### Inductive loads

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

#### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



## S200P-Z, 480Y/277 VAC

### Supplemental protectors

### UL 1077, CSA 22.2, No. 235

# Z



S201P-Z



S202P-Z



S203P-Z

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0.5	S201P-Z0.5	3	0.5	S203P-Z0.5
	1	S201P-Z1		1	S203P-Z1
	1.6	S201P-Z1.6		1.6	S203P-Z1.6
	2	S201P-Z2		2	S203P-Z2
	3	S201P-Z3		3	S203P-Z3
	4	S201P-Z4		4	S203P-Z4
	6	S201P-Z6		6	S203P-Z6
	8	S201P-Z8		8	S203P-Z8
	10	S201P-Z10		10	S203P-Z10
	16	S201P-Z16		16	S203P-Z16
	20	S201P-Z20		20	S203P-Z20
	25	S201P-Z25		25	S203P-Z25
	32	S201P-Z32		32	S203P-Z32
	40	S201P-Z40		40	S203P-Z40
50	S201P-Z50	50	S203P-Z50		
63	S201P-Z63	63	S203P-Z63		
2	0.5	S202P-Z0.5	3	0.5	S203P-Z0.5
	1	S202P-Z1		1	S203P-Z1
	1.6	S202P-Z1.6		1.6	S203P-Z1.6
	2	S202P-Z2		2	S203P-Z2
	3	S202P-Z3		3	S203P-Z3
	4	S202P-Z4		4	S203P-Z4
	6	S202P-Z6		6	S203P-Z6
	8	S202P-Z8		8	S203P-Z8
	10	S202P-Z10		10	S203P-Z10
	16	S202P-Z16		16	S203P-Z16
	20	S202P-Z20		20	S203P-Z20
	25	S202P-Z25		25	S203P-Z25
	32	S202P-Z32		32	S203P-Z32
	40	S202P-Z40		40	S203P-Z40
50	S202P-Z50	50	S203P-Z50		
63	S202P-Z63	63	S203P-Z63		

#### Tripping characteristic Z

UL 1077  
480Y/277 VAC  
10 kA

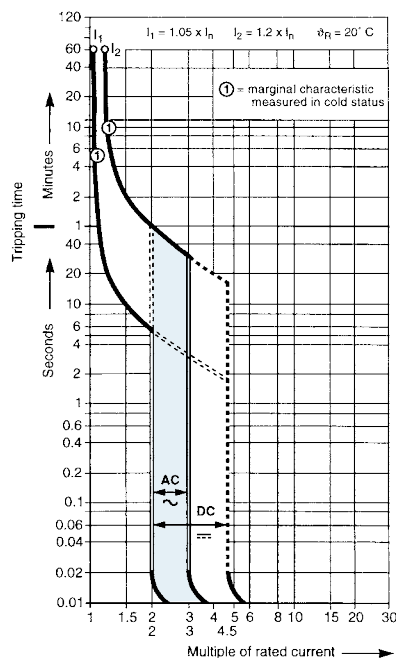
#### Resistive loads

- Z Curve
- Designed to provide maximum protection with a very low short circuit trip setting
- Example: semiconductors

#### Accessories & technical data

**Accessories** – See page 15.31 - 15.34

**Technical data** – See page 15.35 - 15.36





## S200PR-K, 240 VAC, Ring tongue Supplemental protectors UL1077, CSA 22.2 No. 235

# K



S201PR-K0.2



S202PR-K0.2



S203PR-K0.2



S203PR-K0.2

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,2	S201PR-K0,2	3	0,2	S203PR-K0,2
	0,3	S201PR-K0,3		0,3	S203PR-K0,3
	0,5	S201PR-K0,5		0,5	S203PR-K0,5
	0,75	S201PR-K0,75		0,75	S203PR-K0,75
	1	S201PR-K1		1	S203PR-K1
	1,6	S201PR-K1,6		1,6	S203PR-K1,6
	2	S201PR-K2		2	S203PR-K2
	3	S201PR-K3		3	S203PR-K3
	4	S201PR-K4		4	S203PR-K4
	5	S201PR-K5		5	S203PR-K5
	6	S201PR-K6		6	S203PR-K6
	8	S201PR-K8		8	S203PR-K8
	10	S201PR-K10		10	S203PR-K10
	13	S201PR-K13		13	S203PR-K13
	15	S201PR-K15		15	S203PR-K15
	16	S201PR-K16		16	S203PR-K16
20	S201PR-K20	20	S203PR-K20		
25	S201PR-K25	25	S203PR-K25		
30	S201PR-K30	30	S203PR-K30		
32	S201PR-K32	32	S203PR-K32		
35	S201PR-K35	35	S203PR-K35		
40	S201PR-K40	40	S203PR-K40		
50	S201PR-K50	50	S203PR-K50		
60	S201PR-K60	60	S203PR-K60		
63	S201PR-K63	63	S203PR-K63		
2	0,2	S202PR-K0,2	4	0,2	S204PR-K0,2
	0,3	S202PR-K0,3		0,3	S204PR-K0,3
	0,5	S202PR-K0,5		0,5	S204PR-K0,5
	0,75	S202PR-K0,75		0,75	S204PR-K0,75
	1	S202PR-K1		1	S204PR-K1
	1,6	S202PR-K1,6		1,6	S204PR-K1,6
	2	S202PR-K2		2	S204PR-K2
	3	S202PR-K3		3	S204PR-K3
	4	S202PR-K4		4	S204PR-K4
	5	S202PR-K5		5	S204PR-K5
	6	S202PR-K6		6	S204PR-K6
	8	S202PR-K8		8	S204PR-K8
	10	S202PR-K10		10	S204PR-K10
	13	S202PR-K13		13	S204PR-K13
	15	S202PR-K15		15	S204PR-K15
	16	S202PR-K16		16	S204PR-K16
20	S202PR-K20	20	S204PR-K20		
25	S202PR-K25	25	S204PR-K25		
30	S202PR-K30	30	S204PR-K30		
32	S202PR-K32	32	S204PR-K32		
35	S202PR-K35	35	S204PR-K35		
40	S202PR-K40	40	S204PR-K40		
50	S202PR-K50	50	S204PR-K50		
60	S202PR-K60	60	S204PR-K60		
63	S202PR-K63	63	S204PR-K63		

### Tripping characteristic K

UL 1077  
480Y/277 VAC  
10 kA

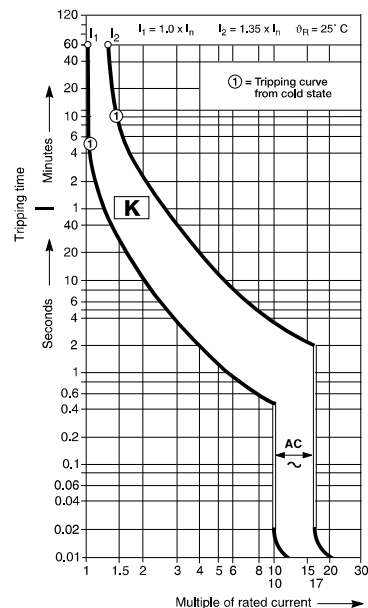
#### Inductive loads

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

#### Accessories & technical data

Accessories – See page 15.31 - 15.34

Technical data – See page 15.35 - 15.36



# S280UC-K, 500 VDC

## Supplemental protectors

### UL 1077, CSA 22.2, No. 235

# 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
25	S281UC-K25	25	S283UC-K25		
2	0,2	S282UC-K0,2	3	32	S283UC-K32
	0,3	S282UC-K0,3		40	S283UC-K40
	0,5	S282UC-K0,5		50	S283UC-K50
	0,75	S282UC-K0,75		63	S283UC-K63
	1	S282UC-K1			
	1,6	S282UC-K1.6			
	2	S282UC-K2			
	3	S282UC-K3			
	4	S282UC-K4			
	6	S282UC-K6			
	8	S282UC-K8			
	10	S282UC-K10			
	16	S282UC-K16			
	20	S282UC-K20			
25	S282UC-K25				
32	S282UC-K32				
40	S282UC-K40				
50	S282UC-K50				
63	S282UC-K63				

### Tripping characteristic K

UL 1077  
250/500 VDC  
10 kA

#### Inductive loads

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

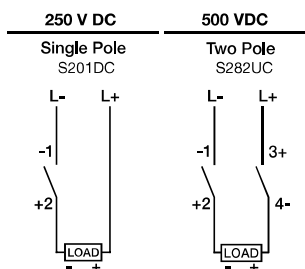
#### Accessories & technical data

Accessories – See page 15.31 - 15.34

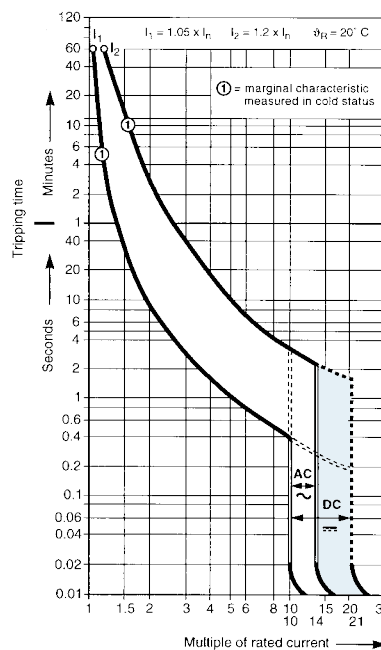
Technical data – See page 15.35 - 15.36

#### 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.



# S280UC-Z, 500 VDC

## Supplemental protectors

### UL 1077, CSA 22.2, No. 235

# Z



S281UC-Z



S282UC-Z



S283UC-Z

No. of poles	Rated current	Catalog number	No. of poles	Rated current	Catalog number
1	0,5	S281UC-Z0,5	3	0,5	S283UC-Z0,5
	1	S281UC-Z1		1	S283UC-Z1
	1,6	S281UC-Z1,6		1,6	S283UC-Z1,6
	2	S281UC-Z2		2	S283UC-Z2
	3	S281UC-Z3		3	S283UC-Z3
	4	S281UC-Z4		4	S283UC-Z4
	6	S281UC-Z6		6	S283UC-Z6
	8	S281UC-Z8		8	S283UC-Z8
	10	S281UC-Z10		10	S283UC-Z10
	16	S281UC-Z16		16	S283UC-Z16
	20	S281UC-Z20		20	S283UC-Z20
	25	S281UC-Z25		25	S283UC-Z25
	32	S281UC-Z32		32	S283UC-Z32
	40	S281UC-Z40		40	S283UC-Z40
50	S281UC-Z50	50	S283UC-Z50		
63	S281UC-Z63	63	S283UC-Z63		
2	0,5	S282UC-Z0,5	3	0,5	S283UC-Z0,5
	1	S282UC-Z1		1	S283UC-Z1
	1,6	S282UC-Z1,6		1,6	S283UC-Z1,6
	2	S282UC-Z2		2	S283UC-Z2
	3	S282UC-Z3		3	S283UC-Z3
	4	S282UC-Z4		4	S283UC-Z4
	6	S282UC-Z6		6	S283UC-Z6
	8	S282UC-Z8		8	S283UC-Z8
	10	S282UC-Z10		10	S283UC-Z10
	16	S282UC-Z16		16	S283UC-Z16
	20	S282UC-Z20		20	S283UC-Z20
	25	S282UC-Z25		25	S283UC-Z25
	32	S282UC-Z32		32	S283UC-Z32
	40	S282UC-Z40		40	S283UC-Z40
50	S282UC-Z50	50	S283UC-Z50		
63	S282UC-Z63	63	S283UC-Z63		

### Tripping characteristic Z

UL 1077  
250/500 VDC  
10 kA

#### Resistive loads

- Z Curve
- Designed to provide maximum protection with a very low short circuit trip setting
- Example: semiconductors

#### Accessories & technical data

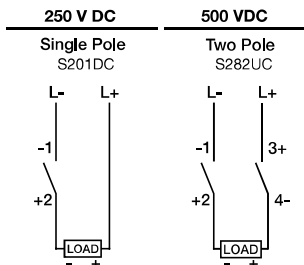
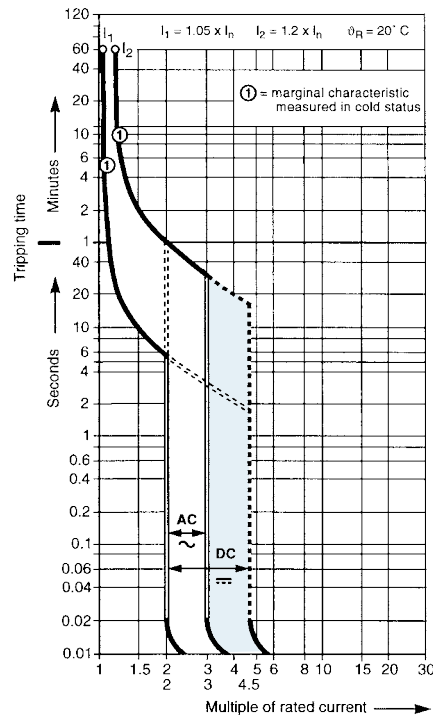
**Accessories** – See page 15.31 - 15.34

**Technical data** – See page 15.35 - 15.36

#### 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.



## Accessories

### S200, S200P & S200PR

#### UL 1077, CSA 22.2, No. 235

#### Auxiliary contacts

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

Description	Catalog number
For field mounting: right side	S2C-H6R



S2C-H6R

#### 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: right side	S2C-S/H6R ⊕

#### Shunt trip

For remote tripping of breaker, a shunt trip device can be added to the MCB. The solenoid device opens the breaker after control voltage is applied.

Description	Catalog number
For field mounting: right side	
A1-12-60 VAC (12 – 60 VDC)	S2C-A1
A2-110-415 VAC (110 – 250 VDC)	S2C-A2



S2C-A

#### Undervoltage release

When control voltage drops below approximately 50 % of rated voltage, the UVR opens the breaker. The breaker can not be operated unless proper control voltage is first applied to the UVR coil.

Description	Catalog number
For field mounting: right side	
12 VDC	S2C-UA 12
24 VAC/VDC	S2C-UA 24
48 VAC/VDC	S2C-UA 48
110 VAC/VDC	S2C-UA 110
220 VAC/VDC	S2C-UA 230
380 VAC	S2C-UA 400



S2C-UA

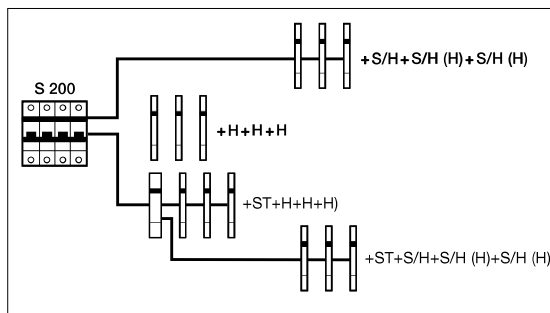


SA 1



SA 2

#### Possible mounting arrangements of MCB accessories



Legend	
Auxiliary contact	H
Bell alarm/Auxiliary contact	S/H
Bell alarm/Auxiliary contact used as auxiliary contact	S/H (H)
Shunt trip	ST
Undervoltage release	UR

#### Locking devices

Description	Catalog number
Locking devices, 3 mm	SA1
Padlock with 2 keys	SA2

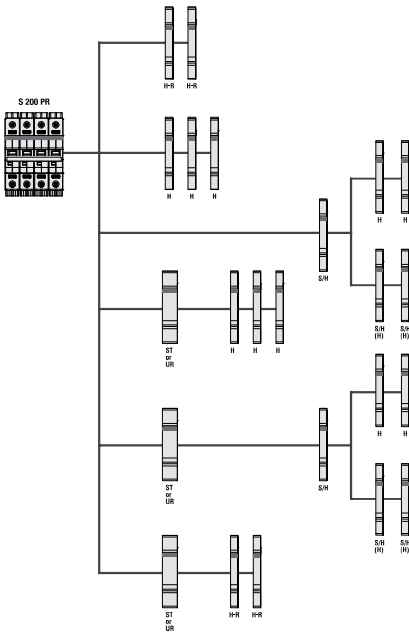
⊕ Combination bell alarm/auxiliary contact.

# Accessories

## S200PR

UL 1077, CSA 22.2, No. 235

### S200PR Accessory overview



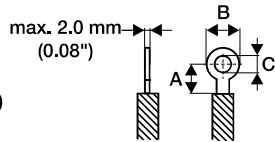
- H Auxiliary contact S2C-H6R
- H-R Auxiliary contact S2C-H6-...R
- S/H Signal/Auxiliary contact S2C-S/H6R
- S/H (H) Signal/Auxiliary contact S2C-S/H6R used as auxiliary contact
- ST Shunt trip S2C-A...
- UR Undervoltage release S2C-UA

### S200PR Instructions for use

#### Ring Tongue Details

Only  or  ring cable lugs	Rated voltage 480V/277 V AC	Insulated only 	A max. 11.0 mm (0.43")	B max. 12.2 mm (0.48")	C Suitable for M5 (0.20")
	Rated voltage 240/240 V AC	Insulated only 	A max. 14.0 mm (0.55")	B max. 12.2 mm (0.48")	C Suitable for M5 (0.20")

PZ 2 Torque: 2.8 Nm (25lb-in)  
 CU only  
 60/75°C  
 (140/167°F)



#### Ring Tongue Terminal, Special purpose - Not for general use

##### Installation Instructions

Please insert or withdraw the cable lug only when the screw is completely open.

Please make sure that the terminal screw penetrates the ring lug hole properly and completely during tightening.

Please ensure that the screw is securely tightened before applying any mechanical force on the cable / cable lug.

< 2.8 Nm  
 2.8 Nm  
 2

Do not apply abnormal downward pressure on the screw during tightening or loosening of the screw.

F = max. 30 N      F = Maximum to operate

Please follow the Ring Tongue Details on the rear of this sheet.