

# S200 UL 489 Series Miniature circuit breakers



**S200**  
UL 489 Series



## 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

# 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

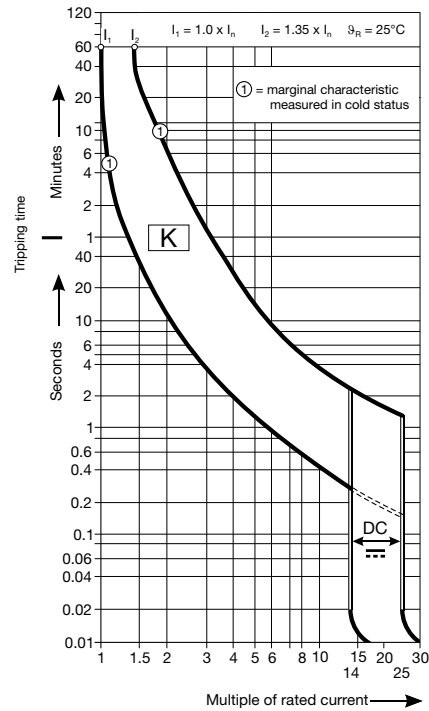
#### Inductive loads

- 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



# 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

⊕ Poles connected in series.