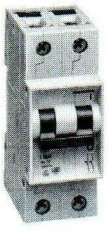
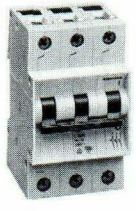
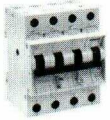
IEC/UL1077 Versions 5SX2

Description	Ordering Information
UL1077 maximum AC ratings One-Pole: 277V AC Two- and Three-Pole: 480V AC IEC maximum DC ratings 55V DC per pole	▶ Select Circuit Breaker based on number of poles, rated current and desired trip curve characteristics see page 772. ▶ Accessories see page 771. ▶ Technical Data see pages 772-773. ▶ Dimensions see page 774.

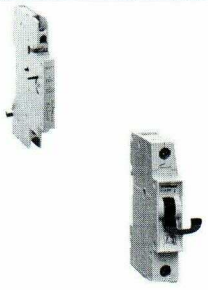
5SX2 Miniature Circuit Breakers

Illustration	Description	Amp Rating	Standard C Curve Catalog No	High Inrush D Curve Catalog No	Semiconductors A Curve Catalog No	Residential B Curve Catalog No	Price $
	One Pole	0.3	5SX2114-7	—	—	—	54.
		0.5	5SX2105-7	5SX2105-8	—	—	54.
		1	5SX2101-7	5SX2101-8	5SX2101-5	—	54.
		1.6	5SX2115-7	5SX2115-8	5SX2115-5	—	54.
		2	5SX2102-7	5SX2102-8	5SX2102-5	—	54.
		3	5SX2103-7	5SX2103-8	5SX2103-5	—	54.
		4	5SX2104-7	5SX2104-8	5SX2104-5	—	54.
		5	5SX2111-7	—	—	—	54.
		6	5SX2106-7	5SX2106-8	5SX2106-5	5SX2106-6	54.
		8	5SX2108-7	5SX2108-8	—	—	54.
		10	5SX2110-7	5SX2110-8	5SX2110-5	5SX2110-6	54.
		13	5SX2113-7	5SX2113-8	—	5SX2113-6	54.
		15	5SX2118-7	—	—	—	54.
		16	5SX2116-7	5SX2116-8	5SX2116-5	5SX2116-6	54.
		20	5SX2120-7	5SX2120-8	5SX2120-5	5SX2120-6	54.
		25	5SX2125-7	5SX2125-8	5SX2125-5	5SX2125-6	54.
		30	5SX2130-7	—	—	—	54.
		32	5SX2132-7	5SX2132-8	5SX2132-5	5SX2132-6	54.
		40	5SX2140-7	5SX2140-8	5SX2140-5	5SX2140-6	54.
		50	5SX2150-7	5SX2150-8	—	5SX2150-6	54.
		63①	5SX2163-7	—	—	5SX2163-6	54.
	Two Pole	0.5	5SX2205-7	5SX2205-8	—	—	108.
		1	5SX2201-7	5SX2201-8	5SX2201-5	—	108.
		1.6	5SX2215-7	5SX2215-8	5SX2215-5	—	108.
		2	5SX2202-7	5SX2202-8	5SX2202-5	—	108.
		3	5SX2203-7	5SX2203-8	5SX2203-5	—	108.
		4	5SX2204-7	5SX2204-8	5SX2204-5	—	108.
		5	5SX2211-7	—	—	—	108.
		6	5SX2206-7	5SX2206-8	5SX2206-5	5SX2206-6	108.
		8	5SX2208-7	5SX2208-8	—	—	108.
		10	5SX2210-7	5SX2210-8	5SX2210-5	5SX2210-6	108.
		13	5SX2213-7	5SX2213-8	—	5SX2213-6	108.
		15	5SX2218-7	—	—	—	108.
		16	5SX2216-7	5SX2216-8	5SX2216-5	5SX2216-6	108.
		20	5SX2220-7	5SX2220-8	5SX2220-5	5SX2220-6	108.
		25	5SX2225-7	5SX2225-8	5SX2225-5	5SX2225-6	108.
		30	5SX2230-7	—	—	—	108.
		32	5SX2232-7	5SX2232-8	5SX2232-5	5SX2232-6	108.
		40	5SX2240-7	5SX2240-8	5SX2240-5	5SX2240-6	108.
		50	5SX2250-7	5SX2250-8	—	5SX2250-6	108.
		63①	5SX2263-7	—	—	5SX2263-6	108.
	Three Pole	0.5	5SX2305-7	5SX2305-8	—	—	162.
		1	5SX2301-7	5SX2301-8	5SX2301-5	—	162.
		1.6	5SX2315-7	5SX2315-8	5SX2315-5	—	162.
		2	5SX2302-7	5SX2302-8	5SX2302-5	—	162.
		3	5SX2303-7	5SX2303-8	5SX2303-5	—	162.
		4	5SX2304-7	5SX2304-8	5SX2304-5	—	162.
		5	5SX2311-7	—	—	—	162.
		6	5SX2306-7	5SX2306-8	5SX2306-5	5SX2306-6	162.
		8	5SX2308-7	5SX2308-8	—	—	162.
		10	5SX2310-7	5SX2310-8	5SX2310-5	5SX2310-6	162.
		13	5SX2313-7	5SX2313-8	—	5SX2313-6	162.
		15	5SX2315-7	—	—	—	162.
		16	5SX2316-7	5SX2316-8	5SX2316-5	5SX2316-6	162.
		20	5SX2320-7	5SX2320-8	5SX2320-5	5SX2320-6	162.
		25	5SX2325-7	5SX2325-8	5SX2325-5	5SX2325-6	162.
		30	5SX2330-7	—	—	—	162.
		32	5SX2332-7	5SX2332-8	5SX2332-5	5SX2332-6	162.
		40	5SX2340-7	5SX2340-8	5SX2340-5	5SX2340-6	162.
		50	5SX2350-7	5SX2350-8	—	5SX2350-6	162.
	Three Pole plus Switched Neutral	10	5SX2610-7	—	—	—	216.
		16	5SX2616-7	—	—	—	216.
		20	5SX2620-7	—	—	—	216.
		25	5SX2625-7	—	—	—	216.
		32	5SX2632-7	—	—	—	216.
		40	5SX2640-7	—	—	—	216.
		50	5SX2650-7	—	—	—	216.

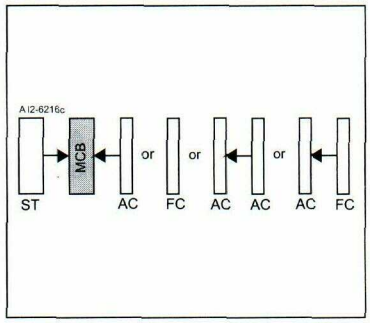
①Not UL recognized or VDE approved.

Accessories

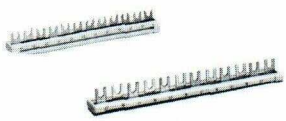
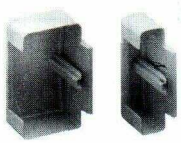
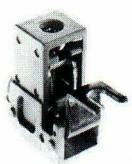
Signalling Accessories for 5SX2 & 5SX5 Circuit Breakers

Illustration	Description	Version	Catalog No	Price $
	Auxiliary Contact (AC)	1 NO & 1 NC 2 NO 2 NC	**5SX9100** **5SX9101** **5SX9102**	**54.** **54.** **54.**
	Short Circuit Alarm Contact (FC)	1 NO & 1 NC 2 NO 2 NC	**5SX9200** **5SX9201** **5SX9202**	**54.** **54.** **54.**
	Shunt Trip (ST)	110V–415V 50/60Hz	**5SX9300**	**108.**

Schematic for 5SX2 & 5SX5 Circuit Breakers



Busbar Accessories for 5SX2 & 5SX5 Miniature Circuit Breakers

Illustration	Number of Pole Spaces	Description	Catalog No	Price $
	**Line Side Feeder Bus Bars—Requires Bus Feeder Lug**			
	One Pole			
	12	210 mm length with end cap	**5ST2142**	**18.00**
	56	1000 mm length without end cap①	**5ST2151**	**65.00**
	28	1000 mm length without end cap with space for accessory①	**5ST2163**	**65.00**
	Two Pole			
	12	210 mm length with end cap	**5ST2143**	**21.50**
	56	1000 mm length without end cap①	**5ST2152**	**90.00**
	28	1000 mm length without end cap with space for accessory①	**5ST2164**	**182.00**
	**Three Pole**			
	12	210 mm length with end cap	**5ST2144**	**29.00**
	56	1000 mm length without end cap①	**5ST2153**	**123.00**
	28	1000 mm length without end cap with space for accessory①	**5ST2165**	**123.00**
	End Caps for Line Side Feeder Bus			
		One pole and Two pole end caps	**5ST2155**	**1.20**
		Three pole and Four pole end caps	**5ST2156**	**1.80**
	**Feeder Lug for Line Side Feeder Bus**			
		One pole and Two pole feeder lug per lug/phase:	**5ST2166**	**12.00**
		Three pole and Four pole feeder lug per lug/phase:	**5ST2167**	**12.00**

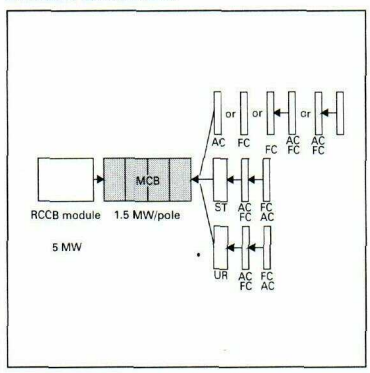
Mounting Accessory for 5SX2 & 5SX5 Circuit Breakers

Description	Catalog No	Price $
Front mounting bracket kit for 5SX2 & 5SX5 one, two and three pole circuit breakers. Allows circuit breaker to be mounted to the door of an enclosure.	**5STFMB**	**12.00**

Signalling Accessories for 5SX6 Circuit Breakers

Illustration	Description	Version	Catalog No	Price $
	Auxiliary Contact (AC)	1 NO & 1 NC	**5SX9160**	**54.00**
	Short Circuit Alarm Contact (FC)	1 NO & 1 NC	**5SX9260**	**54.00**
	Shunt Trip (ST)	24–48V DC 110V–415V 50/60Hz	**5SX9361**② **5SX9360**②	**105.00**② **105.00**②

Schematic for 5SX6 Circuit Breakers



①*These feeder bus bars are* designed to be cut to required length. Order (2) end caps for each bus bar section.
②Discount Code: Siemens AG.

Miniature Circuit Breaker Applications
Time Current Curve Characteristics

Tripping characteristics

According to EN 60 898, DIN VDE 0641 Part 11

Tripping characteristic: A, -5

Type A circuit breaker characteristic is designed to protect very sensitive branch circuits such as semiconductors. Magnetic Trip Point—2 to 3 times circuit breaker rating. Thermal Trip Point—1.13 to 1.45 circuit breaker rating.

Tripping characteristic: B, -6

Type B characteristic designed for European residential circuit protection. This characteristic can also be used for protection of computers and electronic equipment. Magnetic Trip Point—3 to 5 times circuit breaker rating. Thermal Trip Point—1.13 to 1.45 circuit breaker rating.

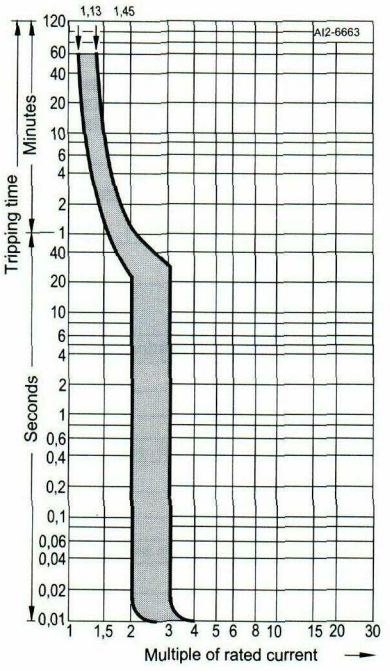
Tripping characteristic: C, -7

Type C characteristic is for general device protection in control circuits and all other supplementary circuit protection systems. Magnetic Trip Point—5 to 10 times circuit breaker rating. Thermal Trip Point—1.13 to 1.45 circuit breaker rating.

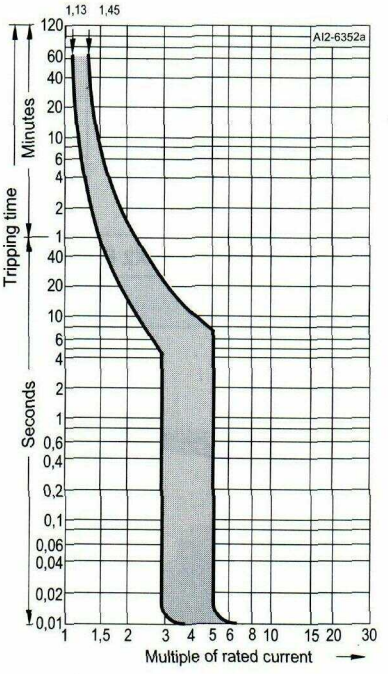
Tripping characteristic: D, -8

Type D characteristic is designed as a supplementary protector of high inrush loads such as transformers and motors. Magnetic Trip Point—10 to 20 times circuit breaker rating. Thermal Trip Point—1.13 to 1.45 circuit breaker rating.

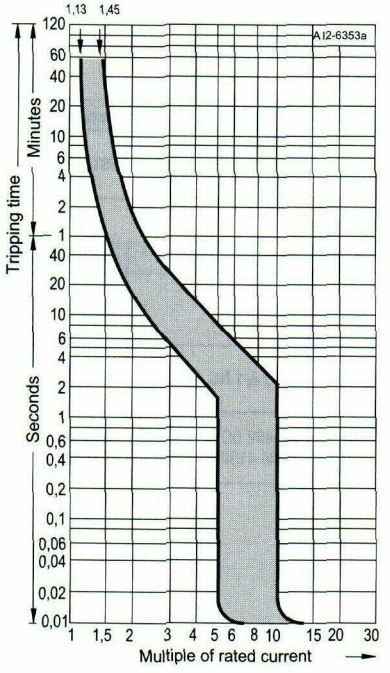
Tripping characteristic: A



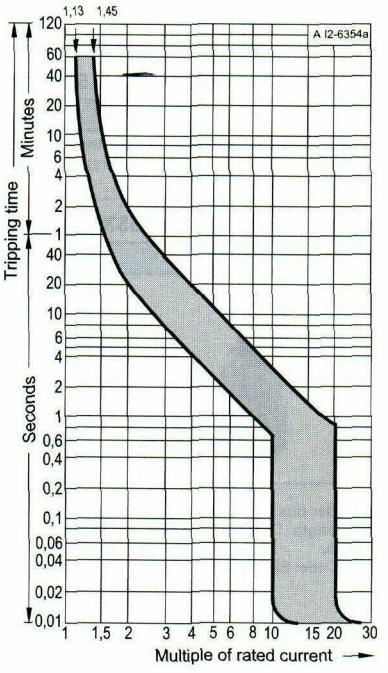
Tripping characteristic: B



Tripping characteristic: C



Tripping characteristic: D



Technical Data

		5SX2..	5SX5..	5SX6..
Approvals		UL 1077 Recognized File E116386 CSA File LR93659	—	—
		EN 60 898, DIN VDE 0641 TEIL 11, IEC B98		
Housing		Grey Molded plastic, RAL 7035, Black Handle		
Terminals: —Load Side		(1) 14–5 AWG/16 mm^2	16 mm^2	Max. (1) 1/0 AWG/50 mm^2
—Line Side		(1) 14–4 AWG/25 mm^2	25 mm^2	Max. (1) 1/0 AWG/50 mm^2
Mounting		Snap-on to 35 mm DIN Mounting Rail		
Mechanical Endurance		*20,000 Operations*		
Rated AC Voltage 50/60Hz: IEC		250/440V	250/415V	250/440V
—UL 1077	1 Pole	120/227 Volt AC 50/60Hz	—	—
	2 Pole	120/240/480 Volt AC 50/60Hz	—	—
	3 Pole	120/240/480 Volt AC 50/60Hz	—	—
Rated DC Voltage	Per Pole	55V	—	60V
IEC	1 Pole	—	220V	—
	2 Pole	—	440V	—
	3 Pole	—	—	—
UL1077	1 Pole	65VDC	—	—
	2 Pole	125VDC	—	—
Auxiliary Contacts Rating for 5SX9	UL	360VA Steady State, 3600VA Inrush, 480V AC, Maximum		
	IEC	AC15: 6A, 230V AC; DC14: 1A, 220V DC		
Rated Interrupting Capacity		6kA	4.5kA	6kA
—UL 1077	120/240 Volt AC	14kA	—	—
	240 Volt AC	7.5kA	—	—
	277 Volt AC	5kA	—	—
	480 Volt AC	5kA	—	—
Permitted Ambient Temp. Range		−25°C to +45°C	−25°C to +45°C	−25°C to +45°C
Shock Resistance		30*g*① —half-sine shock load 6 ms	30 *g*—half-sine shock load 6 ms	
Vibration Resistance		≥6*g*①	≥6*g*	

5SX21

①g = 9.81 m/s²

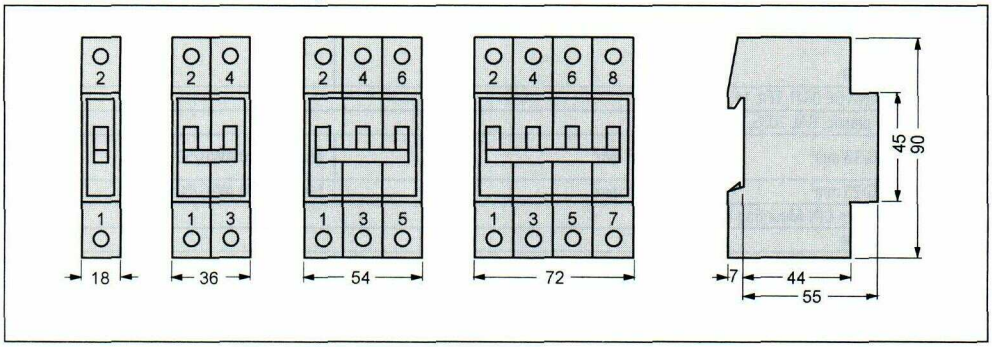
Note: Circuit Protection device catalog numbers are not directly referenced on the product.

Identification of the proper device can be determined as follows:

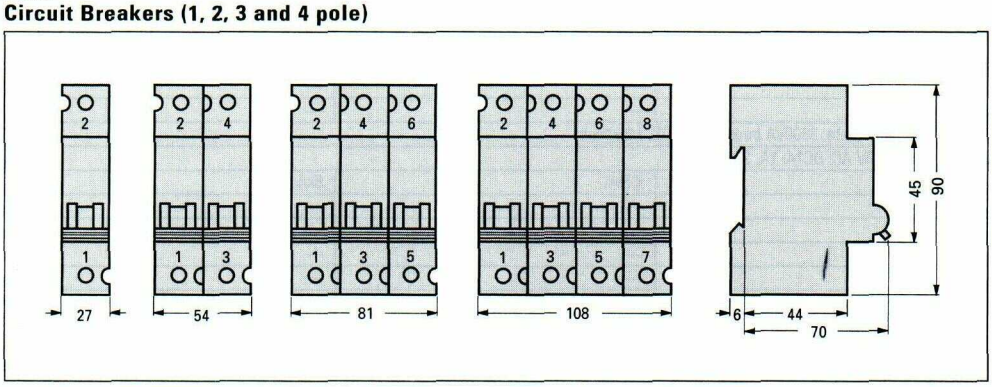
1) Note the number of poles 1, 2 or 3.
2) Note the breaker type, characteristic and amp rating.

Example: Device on left is a 1-pole breaker with a marking of C32. C indicates trip curve characteristic C. The 32 indicates an amp rating of 32; therefore, this device is a 5SX2132-7.

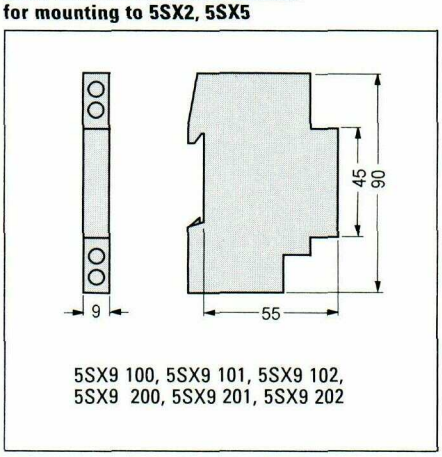
5SX2 and 5SX5
Circuit Breakers (1, 2, 3 and 4 pole)



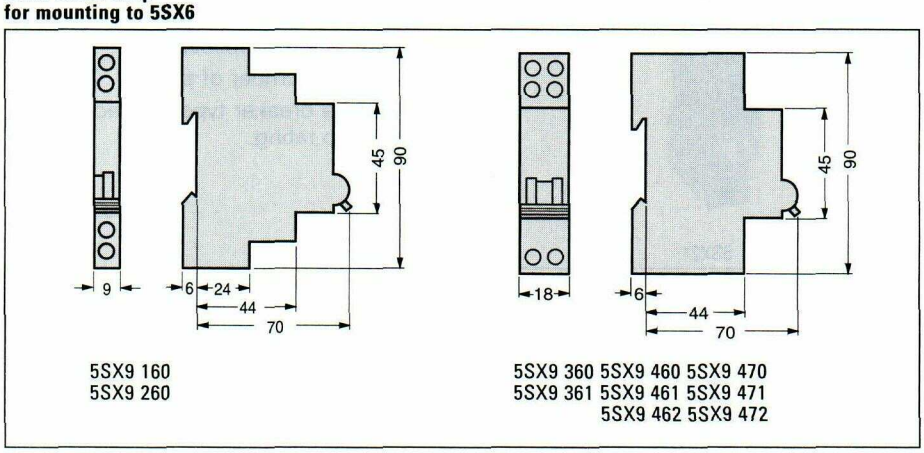
5SX6
Circuit Breakers (1, 2, 3 and 4 pole)



5SX9 auxiliary contact
5SX9 short circuit alarm contact
for mounting to 5SX2, 5SX5



5SX9 auxiliary contact
5SX9 short circuit alarm contact
5SX9 shunt strip
for mounting to 5SX6



Note: All Dimensions shown in millimeters. For reference purposes only. Not to be used for design or construction purposes.