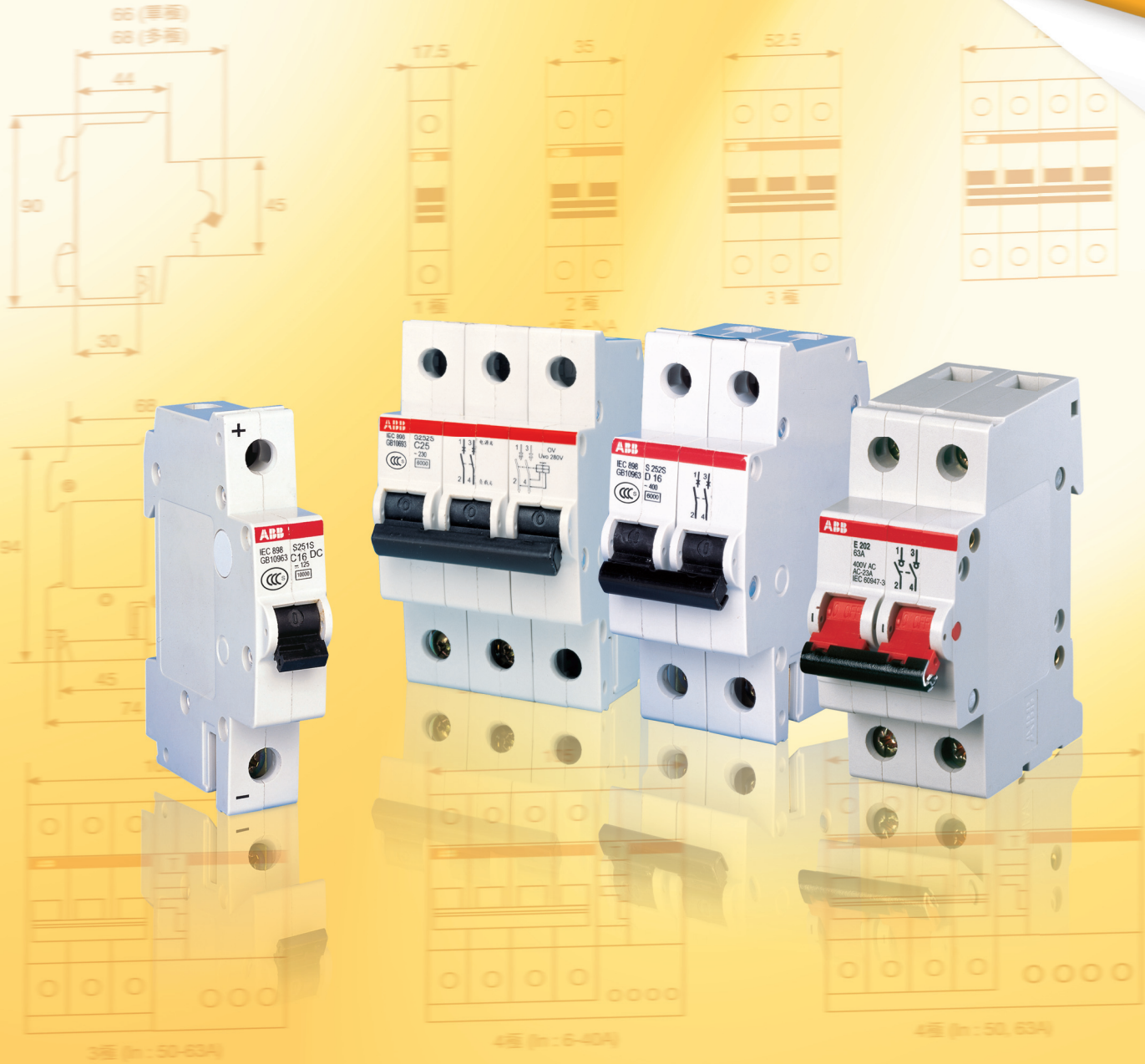


# Miniature Circuit Breakers and Isolators

- S250S
- E200

1SXE420001L0201 05-2008

Line Protection



# MCBs and Isolators

## Product Overview



### S2 series Miniature Circuit Breakers (MCBs)

The S2 series MCBs can be used in domestic, commercial and industrial applications for protection against over-current and short circuit.

Features:

- All-round protection against contact with live parts in accordance with IEC 60364.
- Dual-function terminals enables simultaneous connection of busbar and cable without additional connection pieces.
- Positioning of the M.C.B. on the DIN-rail now possible before snapping on, as the mounting clip is on the lower side.
- Padlocking and sealing facility for every pole in ON or OFF position.
- Accessories can be fitted to the S2... range, on site by the user.
- High short-circuit switching capacity.
- Low let-through energy at the point of fault.
- Rated voltage : 230 / 400 V AC (single pole)

### S250S

S250 series MCBs integrate contacts, over-current protection, short circuit protection and tripping switch together in a single metallic switching mechanism. This special design guarantees the reliability of the operation without influencing external equipment. The rapid electromagnetic operated hammer system ensures the current limiting capacity.

### S250S-DC





Based on the S250S series, the S250S-DC MCBs is designed for direct current distribution system, according to IEC 60898-2 (GB 10963.2).

### Isolators

- Forced opening and suitable for use as main switch.
- High short circuit withstanding capacity.
- Optimal protection against unintentional touch of live parts.
- Dual-function terminals
- Quick mounting clip, lockable in open position.
- Same form and design as MCB Series S2.
- The harmonised design enables interconnection of switch-isolators and MCBs of the Series S2 with busbars.
- The switch-isolators are equipped with dual-function terminals which enable simultaneous connection of conductors and busbar.
- Cross-/ slotted-head screws size 2, system Pozidriv, enable easy, reliable and time-saving wiring.
- Facility for sealing or padlocking in closed or isolated position.
- Internal connection of switching mechanisms ensures simultaneous switching even without toggle linkage.

# MCBs and Isolators

## Technical Data

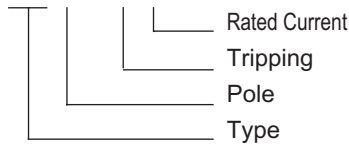
		MCB			Isolator
					
Type		S250S	S250H	S250S-DC	E200
Standards		IEC60898		IEC60898-2	IEC60947-3
Pole		1, 2, 3, 4		1, 2, 3, 4	2, 3, 4
Tripping Characteristics		B、C、D	B、C	C	-
Tripping Type		Electro-Magnetic Type			-
Rated breaking capacity	Icu	6kA (1-40A) 4.5kA (50, 63A)	6kA (50, 63A)	10kA	-
Rated short-time withstand current	Icw	-	-	-	20 In. 1s
Rated short current capacity	Icm	-	-	-	15 In
Rated current	In	1 - 63A	50, 63A	1 - 63A	63 - 125A
Rated voltage	AC single pole Un	230 / 400V		-	230 / 400V
	AC multi-pole Un	400V		-	-
	DC single pole Un	160V		125V	-
	DC multi-pole Un	110V		250V	-
Frequency	Hz	50 - 60		-	50 - 60
Mechanical Life	no. of operation	20,000			-
Electrical Life	no. of operation	10,000			-
Protection degree	Terminals	IP20			
	Housing	IP40			
Ambient temperature					
	Operating Temperature °C	-25...+55			-
	Storage Temperature °C	-40...+70			-
Tropicalization					
	constant climate conditions [°C/RH]	23/83, 40/93, 55/20			
	variable climate conditions [°C/RH]	25/95, 40/93			
Terminal Size	mm <sup>2</sup>	0.75 - 25			1 - 50
Tightening Torque	Nm	2			5

# MCBs

## Order Information

### Type Designation

S25 □S- □ □



### S250S

#### Characteristic B

Rated current (A)	Breaking capacity (kA)	S250S-B			
		1 Pole	2 Poles	3 Poles	4 Poles
6	6	S251S-B6	S252S-B6	S253S-B6	S254S-B6
10		S251S-B10	S252S-B10	S253S-B10	S254S-B10
16		S251S-B16	S252S-B16	S253S-B16	S254S-B16
20		S251S-B20	S252S-B20	S253S-B20	S254S-B20
25		S251S-B25	S252S-B25	S253S-B25	S254S-B25
32		S251S-B32	S252S-B32	S253S-B32	S254S-B32
40		S251S-B40	S252S-B40	S253S-B40	S254S-B40

#### Characteristic C

Rated current (A)	Breaking capacity (kA)	S250S-C				
		1 Pole	2 Poles	3 Poles	4 Poles	
1	6	S251S-C1	S252S-C1	S253S-C1	S254S-C1	
2		S251S-C2	S252S-C2	S253S-C2	S254S-C2	
3		S251S-C3	S252S-C3	S253S-C3	S254S-C3	
4		S251S-C4	S252S-C4	S253S-C4	S254S-C4	
6		S251S-C6	S252S-C6	S253S-C6	S254S-C6	
10		S251S-C10	S252S-C10	S253S-C10	S254S-C10	
16		S251S-C16	S252S-C16	S253S-C16	S254S-C16	
20		S251S-C20	S252S-C20	S253S-C20	S254S-C20	
25		S251S-C25	S252S-C25	S253S-C25	S254S-C25	
32		S251S-C32	S252S-C32	S253S-C32	S254S-C32	
40		S251S-C40	S252S-C40	S253S-C40	S254S-C40	
50		4.5	S251S-C50	S252S-C50	S253S-C50	S254S-C50
63			S251S-C63	S252S-C63	S253S-C63	S254S-C63

#### Characteristic D

Rated current (A)	Breaking capacity (kA)	S250S-D			
		1 Pole	2 Poles	3 Poles	4 Poles
1	6	S251S-D1	S252S-D1	S253S-D1	S254S-D1
4		S251S-D4	S252S-D4	S253S-D4	S254S-D4
6		S251S-D6	S252S-D6	S253S-D6	S254S-D6
10		S251S-D10	S252S-D10	S253S-D10	S254S-D10
16		S251S-D16	S252S-D16	S253S-D16	S254S-D16
20		S251S-D20	S252S-D20	S253S-D20	S254S-D20
25		S251S-D25	S252S-D25	S253S-D25	S254S-D25
32		S251S-D32	S252S-D32	S253S-D32	S254S-D32
40		S251S-D40	S252S-D40	S253S-D40	S254S-D40
50		4.5	S251S-D50	S252S-D50	S253S-D50
63	S251S-D63		S252S-D63	S253S-D63	S254S-D63

### S250H

#### Characteristic B

Rated current (A)	Breaking capacity (kA)	S250H-B		
		1 Pole	2 Poles	3 Poles
50	6	S251H-B50	S252H-B50	S253H-B50
63		S251H-B63	S252H-B63	S253H-B63

#### Characteristic C

Rated current (A)	Breaking capacity (kA)	S250H-C			
		1 Pole	2 Poles	3 Poles	4 Poles
50	6	S251H-C50	S252H-C50	S253H-C50	S254H-C50
63		S251H-C63	S252H-C63	S253H-C63	S254H-C63

# MCBs and Isolators

## Order Information & Tripping Characteristics



### S250S-DC

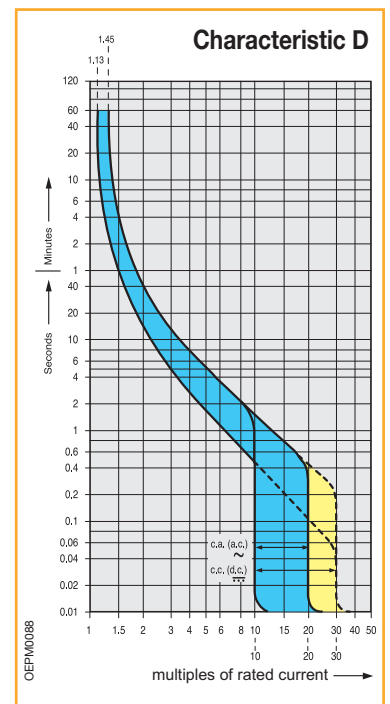
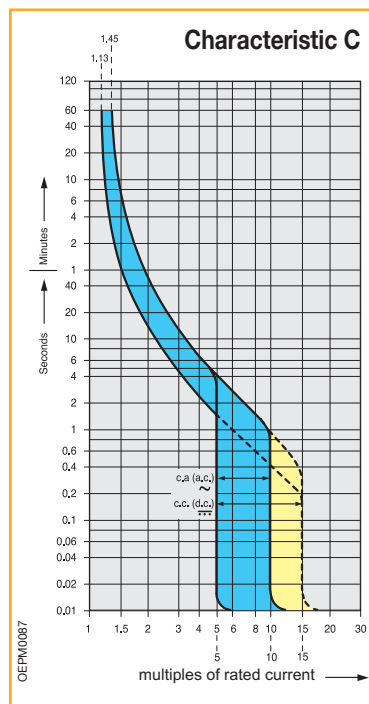
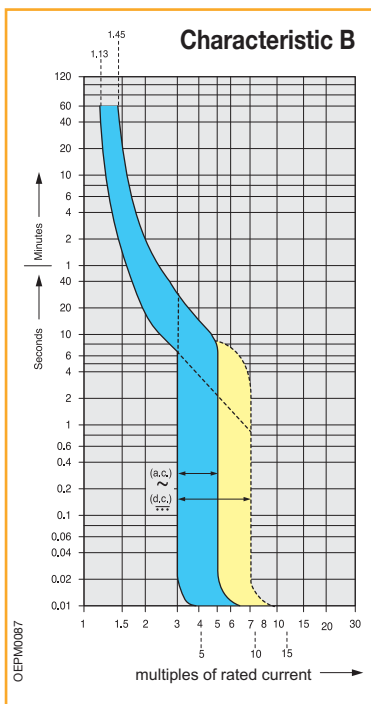
#### Characteristic C

Rated current (A)	Breaking capacity (kA)	S250S-DC			
		1 Pole	2 Poles	3 Poles	4 Poles
1	10	S251S-C1 DC	S252S-C1 DC	S253S-C1 DC	S254S-C1 DC
2		S251S-C2 DC	S252S-C2 DC	S253S-C2 DC	S254S-C2 DC
3		S251S-C3 DC	S252S-C3 DC	S253S-C3 DC	S254S-C3 DC
4		S251S-C4 DC	S252S-C4 DC	S253S-C4 DC	S254S-C4 DC
6		S251S-C6 DC	S252S-C6 DC	S253S-C6 DC	S254S-C6 DC
10		S251S-C10 DC	S252S-C10 DC	S253S-C10 DC	S254S-C10 DC
16		S251S-C16 DC	S252S-C16 DC	S253S-C16 DC	S254S-C16 DC
20		S251S-C20 DC	S252S-C20 DC	S253S-C20 DC	S254S-C20 DC
25		S251S-C25 DC	S252S-C25 DC	S253S-C25 DC	S254S-C25 DC
32		S251S-C32 DC	S252S-C32 DC	S253S-C32 DC	S254S-C32 DC
40		S251S-C40 DC	S252S-C40 DC	S253S-C40 DC	S254S-C40 DC
50		S251S-C50 DC	S252S-C50 DC	S253S-C50 DC	S254S-C50 DC
63		S251S-C63 DC	S252S-C63 DC	S253S-C63 DC	S254S-C63 DC

### E200

Rated current (A)	E200		
	2 Poles	3 Poles	4 Poles
63	E202/63r	E203/63r	E204/63r
80	E202/80r	E203/80r	E204/80r
100	E202/100r	E203/100r	E204/100r
125	E202/125r	E203/125r	E204/125r

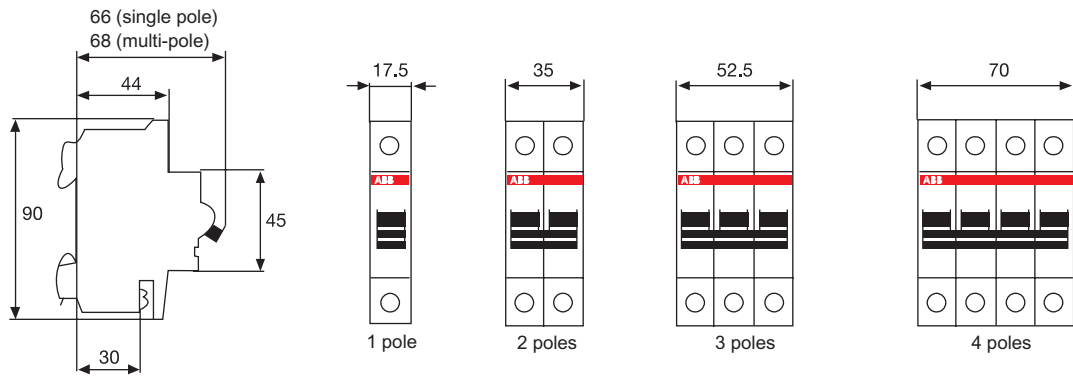
## Tripping Curve



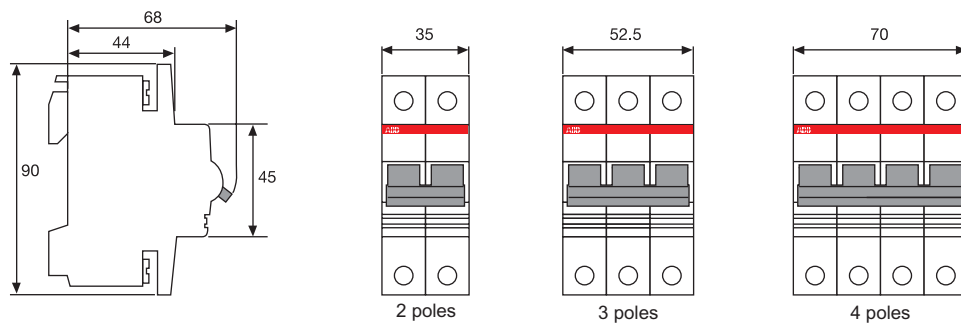
# MCBs and Isolators

## Dimensions (mm)

### S250S / S250H / S250S-DC



### E200



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