

SGB-63L/H Series Miniature Circuit Breaker

Technical data

Standard	EN/ IEC60898-1
Breaking capacity	6kA, 10kA
Protection	Against overload and short circuit
Rated current I_n	0.5, 1,2,3,4,6, 10, 13, 16,20,25,32,40,50,63A
Rated voltage	AC: 1,2,3,4 pole 230/400V Rated insulation voltage U _i : 500V Rated impulse withstand voltage U _{imp} : 4kV Energy limiting :class 3
Ambient temperature (°C)	-5~+40
Characteristic	Thermal operating limit: (1.13-1.45) x I _n Magnetic operating: B: (3-5) x I _n C:(5-10) x I _n D: (10-20) x I _n
Number of poles	1P, 1P+N, 2P, 3P, 3P+N and 4P
Type of trip	Thermal/magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	16mm ² flexible or 25mm ² rigid
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole



SGB-63L-1P



SGB-63L-2P



SGB-63L-3P



SGB-63L-4P

SGB-63L MCB



SGB-63L-1P



SGB-63L-1P+N



SGB-63L-2P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63L/1-B1	SGB-63L/1-C1	SGB-63L/1-D1	12
2	SGB-63L/1-B2	SGB-63L/1-C2	SGB-63L/1-D2	12
3	SGB-63L/1-B3	SGB-63L/1-C3	SGB-63L/1-D3	12
4	SGB-63L/1-B4	SGB-63L/1-C4	SGB-63L/1-D4	12
6	SGB-63L/1-B6	SGB-63L/1-C6	SGB-63L/1-D6	12
10	SGB-63L/1-B10	SGB-63L/1-C10	SGB-63L/1-D10	12
13	SGB-63L/1-B13	SGB-63L/1-C13	SGB-63L/1-D13	12
16	SGB-63L/1-B16	SGB-63L/1-C16	SGB-63L/1-D16	12
20	SGB-63L/1-B20	SGB-63L/1-C20	SGB-63L/1-D20	12
25	SGB-63L/1-B25	SGB-63L/1-C25	SGB-63L/1-D25	12
32	SGB-63L/1-B32	SGB-63L/1-C32	SGB-63L/1-D32	12
40	SGB-63L/1-B40	SGB-63L/1-C40	SGB-63L/1-D40	12
50	SGB-63L/1-B50	SGB-63L/1-C50	SGB-63L/1-D50	12
63	SGB-63L/1-B63	SGB-63L/1-C63	SGB-63L/1-D63	12
1	SGB-63L/1-B1N	SGB-63L/1-C1N	SGB-63L/1-D1N	6
2	SGB-63L/1-B2N	SGB-63L/1-C2N	SGB-63L/1-D2N	6
3	SGB-63L/1-B3N	SGB-63L/1-C3N	SGB-63L/1-D3N	6
4	SGB-63L/1-B4N	SGB-63L/1-C4N	SGB-63L/1-D4N	6
6	SGB-63L/1-B6N	SGB-63L/1-C6N	SGB-63L/1-D6N	6
10	SGB-63L/1-B10N	SGB-63L/1-C10N	SGB-63L/1-D10N	6
13	SGB-63L/1-B13N	SGB-63L/1-C13N	SGB-63L/1-D13N	6
16	SGB-63L/1-B16N	SGB-63L/1-C16N	SGB-63L/1-D16N	6
20	SGB-63L/1-B20N	SGB-63L/1-C20N	SGB-63L/1-D20N	6
25	SGB-63L/1-B25N	SGB-63L/1-C25N	SGB-63L/1-D25N	6
32	SGB-63L/1-B32N	SGB-63L/1-C32N	SGB-63L/1-D32N	6
40	SGB-63L/1-B40N	SGB-63L/1-C40N	SGB-63L/1-D40N	6
50	SGB-63L/1-B50N	SGB-63L/1-C50N	SGB-63L/1-D50N	6
63	SGB-63L/1-B63N	SGB-63L/1-C63N	SGB-63L/1-D63N	6
1	SGB-63L/2-B1	SGB-63L/2-C1	SGB-63L/2-D1	6
2	SGB-63L/2-B2	SGB-63L/2-C2	SGB-63L/2-D2	6
3	SGB-63L/2-B3	SGB-63L/2-C3	SGB-63L/2-D3	6
4	SGB-63L/2-B4	SGB-63L/2-C4	SGB-63L/2-D4	6
6	SGB-63L/2-B6	SGB-63L/2-C6	SGB-63L/2-D6	6
10	SGB-63L/2-B10	SGB-63L/2-C10	SGB-63L/2-D10	6
13	SGB-63L/2-B13	SGB-63L/2-C13	SGB-63L/2-D13	6
16	SGB-63L/2-B16	SGB-63L/2-C16	SGB-63L/2-D16	6
20	SGB-63L/2-B20	SGB-63L/2-C20	SGB-63L/2-D20	6
25	SGB-63L/2-B25	SGB-63L/2-C25	SGB-63L/2-D25	6
32	SGB-63L/2-B32	SGB-63L/2-C32	SGB-63L/2-D32	6
40	SGB-63L/2-B40	SGB-63L/2-C40	SGB-63L/2-D40	6
50	SGB-63L/2-B50	SGB-63L/2-C50	SGB-63L/2-D50	6
63	SGB-63L/2-B63	SGB-63L/2-C63	SGB-63L/2-D63	6

SGB-63L MCB



SGB-63L-3P



SGB-63L-3P+N



SGB-63L-4P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63L/3-B1	SGB-63L/3-C1	SGB-63L/3-D1	4
2	SGB-63L/3-B2	SGB-63L/3-C2	SGB-63L/3-D2	4
3	SGB-63L/3-B3	SGB-63L/3-C3	SGB-63L/3-D3	4
4	SGB-63L/3-B4	SGB-63L/3-C4	SGB-63L/3-D4	4
6	SGB-63L/3-B6	SGB-63L/3-C6	SGB-63L/3-D6	4
10	SGB-63L/3-B10	SGB-63L/3-C10	SGB-63L/3-D10	4
13	SGB-63L/3-B13	SGB-63L/3-C13	SGB-63L/3-D13	4
16	SGB-63L/3-B16	SGB-63L/3-C16	SGB-63L/3-D16	4
20	SGB-63L/3-B20	SGB-63L/3-C20	SGB-63L/3-D20	4
25	SGB-63L/3-B25	SGB-63L/3-C25	SGB-63L/3-D25	4
32	SGB-63L/3-B32	SGB-63L/3-C32	SGB-63L/3-D32	4
40	SGB-63L/3-B40	SGB-63L/3-C40	SGB-63L/3-D40	4
50	SGB-63L/3-B50	SGB-63L/3-C50	SGB-63L/3-D50	4
63	SGB-63L/3-B63	SGB-63L/3-C63	SGB-63L/3-D63	4

1	SGB-63L/3-B1N	SGB-63L/3-C1N	SGB-63L/3-D1N	3
2	SGB-63L/3-B2N	SGB-63L/3-C2N	SGB-63L/3-D2N	3
3	SGB-63L/3-B3N	SGB-63L/3-C3N	SGB-63L/3-D3N	3
4	SGB-63L/3-B4N	SGB-63L/3-C4N	SGB-63L/3-D4N	3
6	SGB-63L/3-B6N	SGB-63L/3-C6N	SGB-63L/3-D6N	3
10	SGB-63L/3-B10N	SGB-63L/3-C10N	SGB-63L/3-D10N	3
13	SGB-63L/3-B13N	SGB-63L/3-C13N	SGB-63L/3-D13N	3
16	SGB-63L/3-B16N	SGB-63L/3-C16N	SGB-63L/3-D16N	3
20	SGB-63L/3-B20N	SGB-63L/3-C20N	SGB-63L/3-D20N	3
25	SGB-63L/3-B25N	SGB-63L/3-C25N	SGB-63L/3-D25N	3
32	SGB-63L/3-B32N	SGB-63L/3-C32N	SGB-63L/3-D32N	3
40	SGB-63L/3-B40N	SGB-63L/3-C40N	SGB-63L/3-D40N	3
50	SGB-63L/3-B50N	SGB-63L/3-C50N	SGB-63L/3-D50N	3
63	SGB-63L/3-B63N	SGB-63L/3-C63N	SGB-63L/3-D63N	3

1	SGB-63L/4-B1	SGB-63L/4-C1	SGB-63L/4-D1	3
2	SGB-63L/4-B2	SGB-63L/4-C2	SGB-63L/4-D2	3
3	SGB-63L/4-B3	SGB-63L/4-C3	SGB-63L/4-D3	3
4	SGB-63L/4-B4	SGB-63L/4-C4	SGB-63L/4-D4	3
6	SGB-63L/4-B6	SGB-63L/4-C6	SGB-63L/4-D6	3
10	SGB-63L/4-B10	SGB-63L/4-C10	SGB-63L/4-D10	3
13	SGB-63L/4-B13	SGB-63L/4-C13	SGB-63L/4-D13	3
16	SGB-63L/4-B16	SGB-63L/4-C16	SGB-63L/4-D16	3
20	SGB-63L/4-B20	SGB-63L/4-C20	SGB-63L/4-D20	3
25	SGB-63L/4-B25	SGB-63L/4-C25	SGB-63L/4-D25	3
32	SGB-63L/4-B32	SGB-63L/4-C32	SGB-63L/4-D32	3
40	SGB-63L/4-B40	SGB-63L/4-C40	SGB-63L/4-D40	3
50	SGB-63L/4-B50	SGB-63L/4-C50	SGB-63L/4-D50	3
63	SGB-63L/4-B63	SGB-63L/4-C63	SGB-63L/4-D63	3

SGB-63H MCB



SGB-63H-1P



SGB-63H-1P+N



SGB-63H-2P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63H/1-B1	SGB-63H/1-C1	SGB-63H/1-D1	12
2	SGB-63H/1-B2	SGB-63H/1-C2	SGB-63H/1-D2	12
3	SGB-63H/1-B3	SGB-63H/1-C3	SGB-63H/1-D3	12
4	SGB-63H/1-B4	SGB-63H/1-C4	SGB-63H/1-D4	12
6	SGB-63H/1-B6	SGB-63H/1-C6	SGB-63H/1-D6	12
10	SGB-63H/1-B10	SGB-63H/1-C10	SGB-63H/1-D10	12
13	SGB-63H/1-B13	SGB-63H/1-C13	SGB-63H/1-D13	12
16	SGB-63H/1-B16	SGB-63H/1-C16	SGB-63H/1-D16	12
20	SGB-63H/1-B20	SGB-63H/1-C20	SGB-63H/1-D20	12
25	SGB-63H/1-B25	SGB-63H/1-C25	SGB-63H/1-D25	12
32	SGB-63H/1-B32	SGB-63H/1-C32	SGB-63H/1-D32	12
40	SGB-63H/1-B40	SGB-63H/1-C40	SGB-63H/1-D40	12
50	SGB-63H/1-B50	SGB-63H/1-C50	SGB-63H/1-D50	12
63	SGB-63H/1-B63	SGB-63H/1-C63	SGB-63H/1-D63	12
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1	SGB-63H/1-B1N	SGB-63H/1-C1N	SGB-63H/1-D1N	6
2	SGB-63H/1-B2N	SGB-63H/1-C2N	SGB-63H/1-D2N	6
3	SGB-63H/1-B3N	SGB-63H/1-C3N	SGB-63H/1-D3N	6
4	SGB-63H/1-B4N	SGB-63H/1-C4N	SGB-63H/1-D4N	6
6	SGB-63H/1-B6N	SGB-63H/1-C6N	SGB-63H/1-D6N	6
10	SGB-63H/1-B10N	SGB-63H/1-C10N	SGB-63H/1-D10N	6
13	SGB-63H/1-B13N	SGB-63H/1-C13N	SGB-63H/1-D13N	6
16	SGB-63H/1-B16N	SGB-63H/1-C16N	SGB-63H/1-D16N	6
20	SGB-63H/1-B20N	SGB-63H/1-C20N	SGB-63H/1-D20N	6
25	SGB-63H/1-B25N	SGB-63H/1-C25N	SGB-63H/1-D25N	6
32	SGB-63H/1-B32N	SGB-63H/1-C32N	SGB-63H/1-D32N	6
40	SGB-63H/1-B40N	SGB-63H/1-C40N	SGB-63H/1-D40N	6
50	SGB-63H/1-B50N	SGB-63H/1-C50N	SGB-63H/1-D50N	6
63	SGB-63H/1-B63N	SGB-63H/1-C63N	SGB-63H/1-D63N	6
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1	SGB-63H/2-B1	SGB-63H/2-C1	SGB-63H/2-D1	6
2	SGB-63H/2-B2	SGB-63H/2-C2	SGB-63H/2-D2	6
3	SGB-63H/2-B3	SGB-63H/2-C3	SGB-63H/2-D3	6
4	SGB-63H/2-B4	SGB-63H/2-C4	SGB-63H/2-D4	6
6	SGB-63H/2-B6	SGB-63H/2-C6	SGB-63H/2-D6	6
10	SGB-63H/2-B10	SGB-63H/2-C10	SGB-63H/2-D10	6
13	SGB-63H/2-B13	SGB-63H/2-C13	SGB-63H/2-D13	6
16	SGB-63H/2-B16	SGB-63H/2-C16	SGB-63H/2-D16	6
20	SGB-63H/2-B20	SGB-63H/2-C20	SGB-63H/2-D20	6
25	SGB-63H/2-B25	SGB-63H/2-C25	SGB-63H/2-D25	6
32	SGB-63H/2-B32	SGB-63H/2-C32	SGB-63H/2-D32	6
40	SGB-63H/2-B40	SGB-63H/2-C40	SGB-63H/2-D40	6
50	SGB-63H/2-B50	SGB-63H/2-C50	SGB-63H/2-D50	6
63	SGB-63H/2-B63	SGB-63H/2-C63	SGB-63H/2-D63	6

SGB-63H MCB



SGB-63H-3P



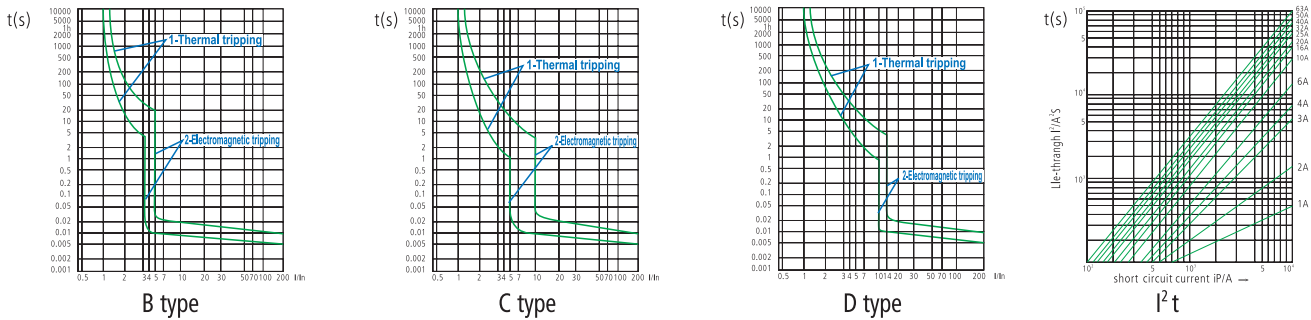
SGB-63H-3P+N



SGB-63H-4P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63H/3-B1	SGB-63H/3-C1	SGB-63H/3-D1	4
2	SGB-63H/3-B2	SGB-63H/3-C2	SGB-63H/3-D2	4
3	SGB-63H/3-B3	SGB-63H/3-C3	SGB-63H/3-D3	4
4	SGB-63H/3-B4	SGB-63H/3-C4	SGB-63H/3-D4	4
6	SGB-63H/3-B6	SGB-63H/3-C6	SGB-63H/3-D6	4
10	SGB-63H/3-B10	SGB-63H/3-C10	SGB-63H/3-D10	4
13	SGB-63H/3-B13	SGB-63H/3-C13	SGB-63H/3-D13	4
16	SGB-63H/3-B16	SGB-63H/3-C16	SGB-63H/3-D16	4
20	SGB-63H/3-B20	SGB-63H/3-C20	SGB-63H/3-D20	4
25	SGB-63H/3-B25	SGB-63H/3-C25	SGB-63H/3-D25	4
32	SGB-63H/3-B32	SGB-63H/3-C32	SGB-63H/3-D32	4
40	SGB-63H/3-B40	SGB-63H/3-C40	SGB-63H/3-D40	4
50	SGB-63H/3-B50	SGB-63H/3-C50	SGB-63H/3-D50	4
63	SGB-63H/3-B63	SGB-63H/3-C63	SGB-63H/3-D63	4
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1	SGB-63H/3-B1N	SGB-63H/3-C1N	SGB-63H/3-D1N	3
2	SGB-63H/3-B2N	SGB-63H/3-C2N	SGB-63H/3-D2N	3
3	SGB-63H/3-B3N	SGB-63H/3-C3N	SGB-63H/3-D3N	3
4	SGB-63H/3-B4N	SGB-63H/3-C4N	SGB-63H/3-D4N	3
6	SGB-63H/3-B6N	SGB-63H/3-C6N	SGB-63H/3-D6N	3
10	SGB-63H/3-B10N	SGB-63H/3-C10N	SGB-63H/3-D10N	3
13	SGB-63H/3-B13N	SGB-63H/3-C13N	SGB-63H/3-D13N	3
16	SGB-63H/3-B16N	SGB-63H/3-C16N	SGB-63H/3-D16N	3
20	SGB-63H/3-B20N	SGB-63H/3-C20N	SGB-63H/3-D20N	3
25	SGB-63H/3-B25N	SGB-63H/3-C25N	SGB-63H/3-D25N	3
32	SGB-63H/3-B32N	SGB-63H/3-C32N	SGB-63H/3-D32N	3
40	SGB-63H/3-B40N	SGB-63H/3-C40N	SGB-63H/3-D40N	3
50	SGB-63H/3-B50N	SGB-63H/3-C50N	SGB-63H/3-D50N	3
63	SGB-63H/3-B63N	SGB-63H/3-C63N	SGB-63H/3-D63N	3
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1	SGB-63H/4-B1	SGB-63H/4-C1	SGB-63H/4-D1	3
2	SGB-63H/4-B2	SGB-63H/4-C2	SGB-63H/4-D2	3
3	SGB-63H/4-B3	SGB-63H/4-C3	SGB-63H/4-D3	3
4	SGB-63H/4-B4	SGB-63H/4-C4	SGB-63H/4-D4	3
6	SGB-63H/4-B6	SGB-63H/4-C6	SGB-63H/4-D6	3
10	SGB-63H/4-B10	SGB-63H/4-C10	SGB-63H/4-D10	3
13	SGB-63H/4-B13	SGB-63H/4-C13	SGB-63H/4-D13	3
16	SGB-63H/4-B16	SGB-63H/4-C16	SGB-63H/4-D16	3
20	SGB-63H/4-B20	SGB-63H/4-C20	SGB-63H/4-D20	3
25	SGB-63H/4-B25	SGB-63H/4-C25	SGB-63H/4-D25	3
32	SGB-63H/4-B32	SGB-63H/4-C32	SGB-63H/4-D32	3
40	SGB-63H/4-B40	SGB-63H/4-C40	SGB-63H/4-D40	3
50	SGB-63H/4-B50	SGB-63H/4-C50	SGB-63H/4-D50	3
63	SGB-63H/4-B63	SGB-63H/4-C63	SGB-63H/4-D63	3

1. Curves



2. Overcurrent protecting characteristics

No	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.13In	$t \leq 1$ h	Non-trip	
2	1-63	upon the previous test	1.45In	$t < 1$ h	trip	Setting current up to specified value steadily in 5S
3	$In \leq 32$	cold state	2.55In	$1s < t < 60s$	trip	
	$In > 32$	cold state	2.55In	$1s < t < 120s$	trip	
4	1-63	cold state	3In	$t \leq 0.1s$	Non-trip	B type
	1-63	cold state	5In	$t < 1.1s$	trip	B type
	1-63	cold state	5In	$t \leq 0.1s$	Non-trip	C type
	1-63	cold state	10In	$t < 1.1s$	trip	C type
	1-63	cold state	10In	$t \leq 0.1s$	Non-trip	D type
	1-63	cold state	20In	$t < 1.1s$	trip	D type

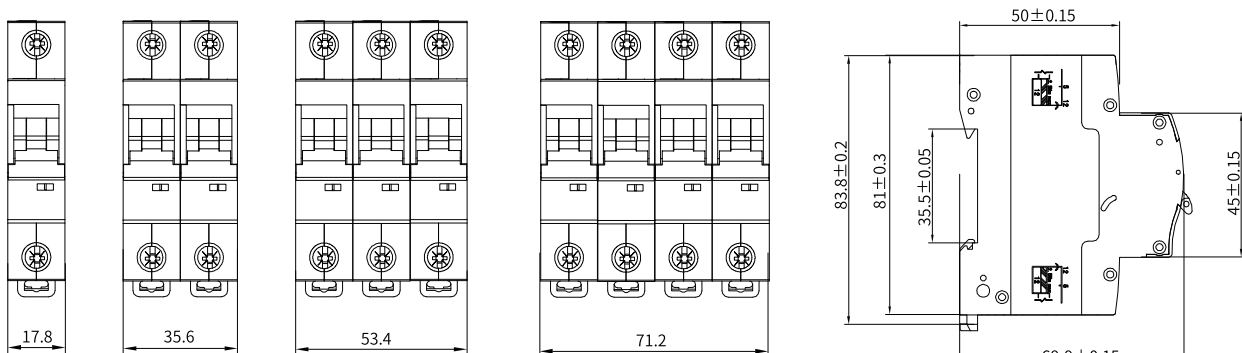
3. Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	8000	240/h	1-32
		120/h	40-63
Mechanical endurance	20000	240/h	1-63

4.Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism. Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

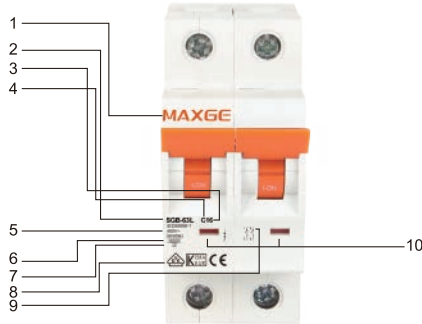
5. Overall and mounting dimensions



SGB-63L/SGB-63H

1. Benefits

- 1.Brand
2. Type
3. Rated current
4. Tripping type
5. Rated voltage
6. Breaking capacity
7. Energy Limiting
8. Approval
9. Electrical wiring diagram
10. ON/OFF indication



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- ◆ Attractive device design
- ◆ Easily recognized, color-coded switching position
- ◆ Indication integrated in the handle.

- ◆ Well matched with RCCB SGR



- ◆ Well matched with Isolator SGI-R

- ◆ Auxiliary contacts can be added on the left side of the MCB

- ◆ Ergonomic handle for user-friendly switching



- ◆ Safety terminal:
 - easy wiring
 - protection degree IP20.
- ◆ Pozidriv and slot screw head. Torque up to 4 N.m.

- ◆ MCB and RCCB can be connected with PIN type busbar both at the top and bottom terminals.with easy DIN-rail extraction.

- ◆ MCB and RCCB can be connected with FORK type busbar both at the top and bottom terminals.with easy DIN-rail extraction.