

## SGB-63M-DC Series Miniature Circuit Breaker

### Technical data

<b>Standard</b>	EN/IEC60947-2
<b>Breaking capacity</b>	6kA
<b>Protection</b>	Against overload and short circuit
<b>Rated current In</b>	1,2,3,4,6,10,13,16,20,25,32,40,50,63A
<b>Rated voltage</b>	<b>DC:</b> Rated voltage Ue(VDC): 1P 250 3P 750 2P 500 4P 1000 Operational volatge(VDC): Min.:12 Max :1P 250 2P 500
<b>Ambient temperature ( °C)</b>	-5~+40
<b>Characteristic</b>	Thermal operating limit: (1.05-1.30) x In Magnetic operating: (8-12) x In
<b>Number of poles</b>	1P,2P,3P and 4P
<b>Type of trip</b>	Thermal/magnetic release
<b>Type of terminal</b>	Lug type and Pin type
<b>Terminal capacity</b>	16mm <sup>2</sup> flexible or 25mm <sup>2</sup> rigid
<b>Protection degree</b>	IP20
<b>Installation</b>	Mounting on 35mm DIN rail
<b>Width</b>	17.8mm per pole



SGB-63M-DC-1P



SGB-63M-DC-2P



SGB-63M-DC-3P



SGB-63M-DC-4P

## SGB-63M-DC MCB



SGB-63M-DC-1P



SGB-63M-DC-2P

Rated current(A)	DC type	Packing unit
1	SGB-63M/1-DC1	12
2	SGB-63M/1-DC2	12
3	SGB-63M/1-DC3	12
4	SGB-63M/1-DC4	12
6	SGB-63M/1-DC6	12
10	SGB-63M/1-DC10	12
13	SGB-63M/1-DC13	12
16	SGB-63M/1-DC16	12
20	SGB-63M/1-DC20	12
25	SGB-63M/1-DC25	12
32	SGB-63M/1-DC32	12
40	SGB-63M/1-DC40	12
50	SGB-63M/1-DC50	12
63	SGB-63M/1-DC63	12
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1	SGB-63M/2-DC1	6
2	SGB-63M/2-DC2	6
3	SGB-63M/2-DC3	6
4	SGB-63M/2-DC4	6
6	SGB-63M/2-DC6	6
10	SGB-63M/2-DC10	6
13	SGB-63M/2-DC13	6
16	SGB-63M/2-DC16	6
20	SGB-63M/2-DC20	6
25	SGB-63M/2-DC25	6
32	SGB-63M/2-DC32	6
40	SGB-63M/2-DC40	6
50	SGB-63M/2-DC50	6
63	SGB-63M/2-DC63	6

## SGB-63M-DC MCB



SGB-63M-DC-3P



SGB-63M-DC-4P

Rated current(A)	DC type	Packing unit
1	SGB-63M/3-DC1	4
2	SGB-63M/3-DC2	4
3	SGB-63M/3-DC3	4
4	SGB-63M/3-DC4	4
6	SGB-63M/3-DC6	4
10	SGB-63M/3-DC10	4
13	SGB-63M/3-DC13	4
16	SGB-63M/3-DC16	4
20	SGB-63M/3-DC20	4
25	SGB-63M/3-DC25	4
32	SGB-63M/3-DC32	4
40	SGB-63M/3-DC40	4
50	SGB-63M/3-DC50	4
63	SGB-63M/3-DC63	4
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1	SGB-63M/4-DC1	3
2	SGB-63M/4-DC2	3
3	SGB-63M/4-DC3	3
4	SGB-63M/4-DC4	3
6	SGB-63M/4-DC6	3
10	SGB-63M/4-DC10	3
13	SGB-63M/4-DC13	3
16	SGB-63M/4-DC16	3
20	SGB-63M/4-DC20	3
25	SGB-63M/4-DC25	3
32	SGB-63M/4-DC32	3
40	SGB-63M/4-DC40	3
50	SGB-63M/4-DC50	3
63	SGB-63M/4-DC63	3

## 1. 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	1.05I <sub>n</sub>	t ≤ 1 h	Non-trip	
2	1-63	upon the previous test	1.30I <sub>n</sub>	t < 1 h	trip	Setting current up to specified value steadily in 5S
3	I <sub>n</sub> ≤ 32	cold state	2.55I <sub>n</sub>	1s < t < 60s	trip	
	I <sub>n</sub> > 32	cold state	2.55I <sub>n</sub>	1s < t < 120s	trip	
4	1-63	cold state	8I <sub>n</sub>	t ≤ 0.1s	Non-trip	C type
	1-63	cold state	12I <sub>n</sub>	t < 1.1s	trip	C type

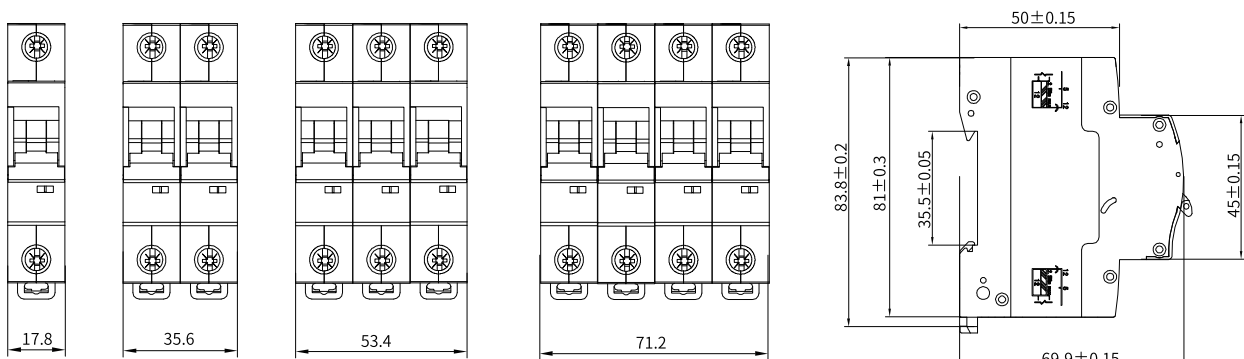
## 2. Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	0.5-32
		120/h	40-63
Mechanical endurance	10000	240/h	0.5-63

## 3.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.

## 4. Overall and mounting dimensions



SGB-63M-DC