

MCB SERIES

Miniature Circuit Breaker



Products Overview of Circuit Breakers

Product name	MCB	
Product range	SGB-63M	SGB-63H
Product picture		
Standard	IEC/EN 60898-1 GB/T 10963.1	
Number of poles	1P,2P,3P,4P,(1P+N),(3P+N)	
Electrical characteristics		
Rated current(A) In	1-63	
Rated voltage(V)	1P AC 230/400;240/415 1P+N AC 230/240 2P AC 230/400;240/415 3P,3P+N,4P AC 400/415	
AC rated short-circuit capacity(kA)		
IEC60898-1 standard(kA)	6	10
Tripping curve	B,C,D	
Type	AC	
Electrical auxiliaries	Auxiliary contact,Alarm contact,Shunt trip, Over/under voltage trip	
Catalogue page NO.	64-69	

SGB-63M/H Series

Miniature Circuit Breaker

Standard	EN/IEC 60898-1 GB/T 10963.1
Breaking capacity(kA)	6,10
Protection	Against overload and short circuit
Rated current(A) In	1,2,3,4,6,10,13,16,20,25,32,40,50,63
Rated voltage(V)	1P AC 230/400,240/415 1P+N,2P,3P,3P+N,4P AC 230/400,240/415
Rated impulse withstand voltage Uimp(kV)	4
Rated insulation voltage Ui(V)	500
Energy limiting class	3
Ambient temperature (°C)	-25~+40,Max.95%humidity
Thermal operating limit	1.13 xIn No tripping within an hour 1.45 xIn Tripping within an hour
Magnertic operating	B:(3-5)xIn,C:(5-10)xIn,D:(10-20)xIn
Number of poles	1P,1P+N,2P,3P,3P+N and 4P
Type of trip	Thermal/ magnetic release
Terminal capacity	16mm ² flexible or 25mm ² rigid
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Certification	   



SGB-63M-1P



SGB-63M-2P



SGB-63M-3P



SGB-63M-4P

SGB - 63M Series

Miniature Circuit Breaker

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

SGB - 63M Series

Miniature Circuit Breaker

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

SGB - 63H Series

Miniature Circuit Breaker

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

SGB-63H Series

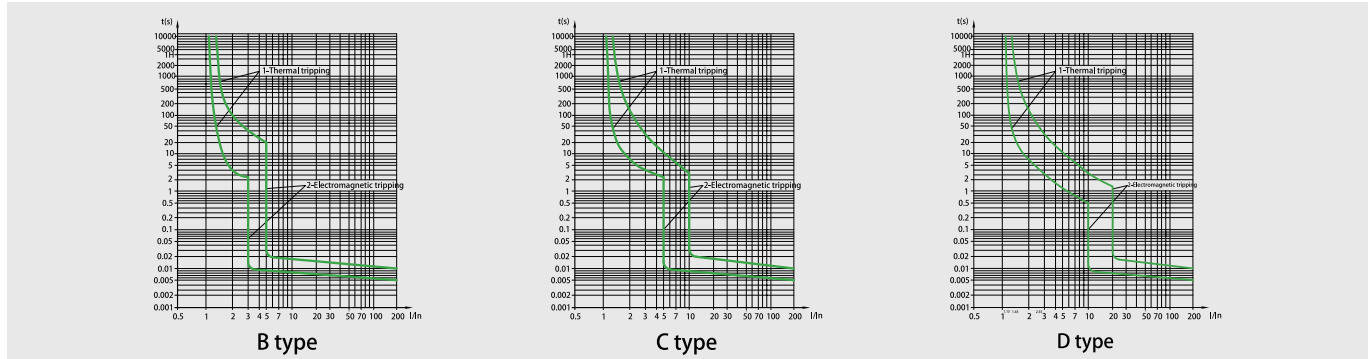
Miniature Circuit Breaker

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

SGB-63M/H Series

Miniature Circuit Breaker

Curves



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	$1.13I_n$	$t \leq 1h$	Non-trip	
2	1-63	upon the previous test	$1.45I_n$	$t < 1h$	trip	Setting current up to specified value steadily in 5s
3	$I_n \leq 32$ $I_n > 32$	cold state	$2.55I_n$	$1s < t < 60s$ $1s < t < 120s$	trip	
4	1-63	cold state	$3I_n$ $5I_n$ $5I_n$ $10I_n$ $10I_n$ $20I_n$	$t \leq 0.1s$ $t < 0.1s$ $t \leq 0.1s$ $t < 0.1s$ $t \leq 0.1s$ $t < 0.1s$	Non-trip trip Non-trip trip Non-trip trip	B type B type C type C type D type D type

Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	1-32
		120/h	40-63
Mechanical endurance	10000	240/h	1-63

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.

Overall and mounting dimensions

