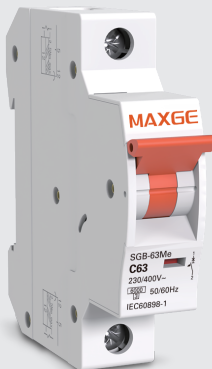


MCB SERIES

Miniature Circuit Breaker



Products Overview of Circuit Breakers

Product name	MCB		
Product range	SGB-63Me	SGB-63Ne	SGB-63Se
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	4.5	3
Tripping curve	B,C		
Type	AC		
Electrical auxiliaries	-		
Catalogue page NO.	60-63		

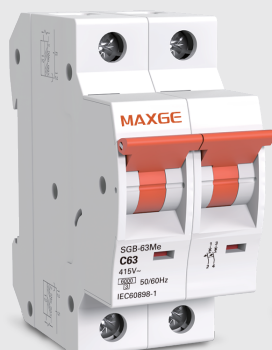
SGB-63Me/Ne/Se Series

Miniature Circuit Breaker

Standard	EN/IEC 60898-1 GB/T 10963.1
Breaking capacity(kA)	3,4.5,6
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 AC 230/240
	2P AC 230/400,240/415;3P,3P+N,4P AC 230/240
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
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-63Me-1P



SGB-63Me-2P



SGB-63Me-3P



SGB-63Me-4P

SGB-63Me/Ne/Se Series

Miniature Circuit Breaker

	Rated current(A)	C curve			Packing unit
		6 kA	4.5 kA	3 kA	
 SGB-63Me-1P	1	SGB-63Me/1-C1	SGB-63Ne/1-C1	SGB-63Se/1-C1	12
	2	SGB-63Me/1-C2	SGB-63Ne/1-C2	SGB-63Se/1-C2	
	3	SGB-63Me/1-C3	SGB-63Ne/1-C3	SGB-63Se/1-C3	
	4	SGB-63Me/1-C4	SGB-63Ne/1-C4	SGB-63Se/1-C4	
	6	SGB-63Me/1-C6	SGB-63Ne/1-C6	SGB-63Se/1-C6	
	10	SGB-63Me/1-C10	SGB-63Ne/1-C10	SGB-63Se/1-C10	
	13	SGB-63Me/1-C13	SGB-63Ne/1-C13	SGB-63Se/1-C13	
	16	SGB-63Me/1-C16	SGB-63Ne/1-C16	SGB-63Se/1-C16	
	20	SGB-63Me/1-C20	SGB-63Ne/1-C20	SGB-63Se/1-C20	
	25	SGB-63Me/1-C25	SGB-63Ne/1-C25	SGB-63Se/1-C25	
	32	SGB-63Me/1-C32	SGB-63Ne/1-C32	SGB-63Se/1-C32	
	40	SGB-63Me/1-C40	SGB-63Ne/1-C40	SGB-63Se/1-C40	
	50	SGB-63Me/1-C50	SGB-63Ne/1-C50	SGB-63Se/1-C50	
	63	SGB-63Me/1-C63	SGB-63Ne/1-C63	SGB-63Se/1-C63	
 SGB-63Me-1P+N	1	SGB-63Me/1-C1N	SGB-63Ne/1-C1N	SGB-63Se/1-C1N	6
	2	SGB-63Me/1-C2N	SGB-63Ne/1-C2N	SGB-63Se/1-C2N	
	3	SGB-63Me/1-C3N	SGB-63Ne/1-C3N	SGB-63Se/1-C3N	
	4	SGB-63Me/1-C4N	SGB-63Ne/1-C4N	SGB-63Se/1-C4N	
	6	SGB-63Me/1-C6N	SGB-63Ne/1-C6N	SGB-63Se/1-C6N	
	10	SGB-63Me/1-C10N	SGB-63Ne/1-C10N	SGB-63Se/1-C10N	
	13	SGB-63Me/1-C13N	SGB-63Ne/1-C13N	SGB-63Se/1-C13N	
	16	SGB-63Me/1-C16N	SGB-63Ne/1-C16N	SGB-63Se/1-C16N	
	20	SGB-63Me/1-C20N	SGB-63Ne/1-C20N	SGB-63Se/1-C20N	
	25	SGB-63Me/1-C25N	SGB-63Ne/1-C25N	SGB-63Se/1-C25N	
	32	SGB-63Me/1-C32N	SGB-63Ne/1-C32N	SGB-63Se/1-C32N	
	40	SGB-63Me/1-C40N	SGB-63Ne/1-C40N	SGB-63Se/1-C40N	
	50	SGB-63Me/1-C50N	SGB-63Ne/1-C50N	SGB-63Se/1-C50N	
	63	SGB-63Me/1-C63N	SGB-63Ne/1-C63N	SGB-63Se/1-C63N	
 SGB-63Me-2P	1	SGB-63Me/2-C1	SGB-63Ne/2-C1	SGB-63Se/2-C1	6
	2	SGB-63Me/2-C2	SGB-63Ne/2-C2	SGB-63Se/2-C2	
	3	SGB-63Me/2-C3	SGB-63Ne/2-C3	SGB-63Se/2-C3	
	4	SGB-63Me/2-C4	SGB-63Ne/2-C4	SGB-63Se/2-C4	
	6	SGB-63Me/2-C6	SGB-63Ne/2-C6	SGB-63Se/2-C6	
	10	SGB-63Me/2-C10	SGB-63Ne/2-C10	SGB-63Se/2-C10	
	13	SGB-63Me/2-C13	SGB-63Ne/2-C13	SGB-63Se/2-C13	
	16	SGB-63Me/2-C16	SGB-63Ne/2-C16	SGB-63Se/2-C16	
	20	SGB-63Me/2-C20	SGB-63Ne/2-C20	SGB-63Se/2-C20	
	25	SGB-63Me/2-C25	SGB-63Ne/2-C25	SGB-63Se/2-C25	
	32	SGB-63Me/2-C32	SGB-63Ne/2-C32	SGB-63Se/2-C32	
	40	SGB-63Me/2-C40	SGB-63Ne/2-C40	SGB-63Se/2-C40	
	50	SGB-63Me/2-C50	SGB-63Ne/2-C50	SGB-63Se/2-C50	
	63	SGB-63Me/2-C63	SGB-63Ne/2-C63	SGB-63Se/2-C63	

SGB - 63Me/Ne/Se Series

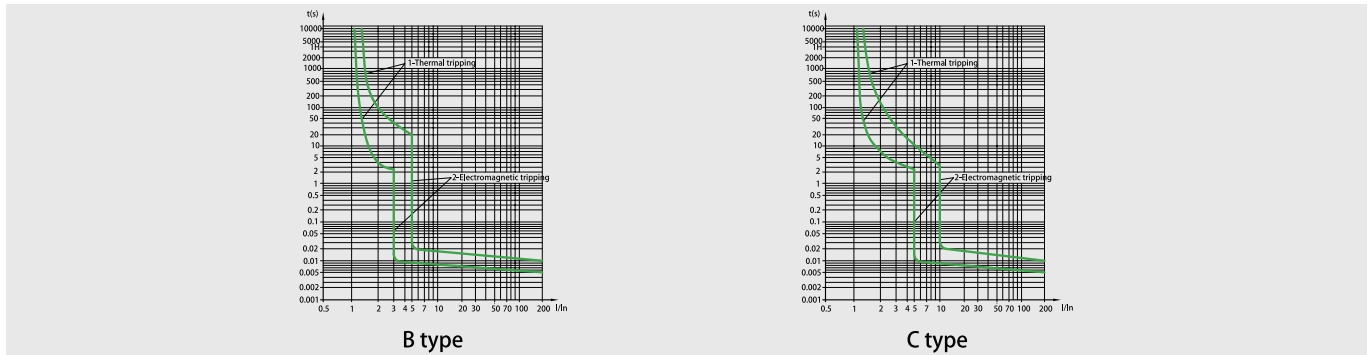
Miniature Circuit Breaker

	Rated current(A)	C curve			Packing unit
		6 kA	4.5 kA	3 kA	
 SGB-63Me-3P	1	SGB-63Me/3-C1	SGB-63Ne/3-C1	SGB-63Se/3-C1	4
	2	SGB-63Me/3-C2	SGB-63Ne/3-C2	SGB-63Se/3-C2	
	3	SGB-63Me/3-C3	SGB-63Ne/3-C3	SGB-63Se/3-C3	
	4	SGB-63Me/3-C4	SGB-63Ne/3-C4	SGB-63Se/3-C4	
	6	SGB-63Me/3-C6	SGB-63Ne/3-C6	SGB-63Se/3-C6	
	10	SGB-63Me/3-C10	SGB-63Ne/3-C10	SGB-63Se/3-C10	
	13	SGB-63Me/3-C13	SGB-63Ne/3-C13	SGB-63Se/3-C13	
	16	SGB-63Me/3-C16	SGB-63Ne/3-C16	SGB-63Se/3-C16	
	20	SGB-63Me/3-C20	SGB-63Ne/3-C20	SGB-63Se/3-C20	
	25	SGB-63Me/3-C25	SGB-63Ne/3-C25	SGB-63Se/3-C25	
	32	SGB-63Me/3-C32	SGB-63Ne/3-C32	SGB-63Se/3-C32	
	40	SGB-63Me/3-C40	SGB-63Ne/3-C40	SGB-63Se/3-C40	
	50	SGB-63Me/3-C50	SGB-63Ne/3-C50	SGB-63Se/3-C50	
	63	SGB-63Me/3-C63	SGB-63Ne/3-C63	SGB-63Se/3-C63	
 SGB-63Me-3P+N	1	SGB-63Me/3-C1N	SGB-63Ne/3-C1N	SGB-63Se/3-C1N	3
	2	SGB-63Me/3-C2N	SGB-63Ne/3-C2N	SGB-63Se/3-C2N	
	3	SGB-63Me/3-C3N	SGB-63Ne/3-C3N	SGB-63Se/3-C3N	
	4	SGB-63Me/3-C4N	SGB-63Ne/3-C4N	SGB-63Se/3-C4N	
	6	SGB-63Me/3-C6N	SGB-63Ne/3-C6N	SGB-63Se/3-C6N	
	10	SGB-63Me/3-C10N	SGB-63Ne/3-C10N	SGB-63Se/3-C10N	
	13	SGB-63Me/3-C13N	SGB-63Ne/3-C13N	SGB-63Se/3-C13N	
	16	SGB-63Me/3-C16N	SGB-63Ne/3-C16N	SGB-63Se/3-C16N	
	20	SGB-63Me/3-C20N	SGB-63Ne/3-C20N	SGB-63Se/3-C20N	
	25	SGB-63Me/3-C25N	SGB-63Ne/3-C25N	SGB-63Se/3-C25N	
	32	SGB-63Me/3-C32N	SGB-63Ne/3-C32N	SGB-63Se/3-C32N	
	40	SGB-63Me/3-C40N	SGB-63Ne/3-C40N	SGB-63Se/3-C40N	
	50	SGB-63Me/3-C50N	SGB-63Ne/3-C50N	SGB-63Se/3-C50N	
	63	SGB-63Me/3-C63N	SGB-63Ne/3-C63N	SGB-63Se/3-C63N	
 SGB-63Me-4P	1	SGB-63Me/4-C1	SGB-63Ne/4-C1	SGB-63Se/4-C1	3
	2	SGB-63Me/4-C2	SGB-63Ne/4-C2	SGB-63Se/4-C2	
	3	SGB-63Me/4-C3	SGB-63Ne/4-C3	SGB-63Se/4-C3	
	4	SGB-63Me/4-C4	SGB-63Ne/4-C4	SGB-63Se/4-C4	
	6	SGB-63Me/4-C6	SGB-63Ne/4-C6	SGB-63Se/4-C6	
	10	SGB-63Me/4-C10	SGB-63Ne/4-C10	SGB-63Se/4-C10	
	13	SGB-63Me/4-C13	SGB-63Ne/4-C13	SGB-63Se/4-C13	
	16	SGB-63Me/4-C16	SGB-63Ne/4-C16	SGB-63Se/4-C16	
	20	SGB-63Me/4-C20	SGB-63Ne/4-C20	SGB-63Se/4-C20	
	25	SGB-63Me/4-C25	SGB-63Ne/4-C25	SGB-63Se/4-C25	
	32	SGB-63Me/4-C32	SGB-63Ne/4-C32	SGB-63Se/4-C32	
	40	SGB-63Me/4-C40	SGB-63Ne/4-C40	SGB-63Se/4-C40	
	50	SGB-63Me/4-C50	SGB-63Ne/4-C50	SGB-63Se/4-C50	
	63	SGB-63Me/4-C63	SGB-63Ne/4-C63	SGB-63Se/4-C63	

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

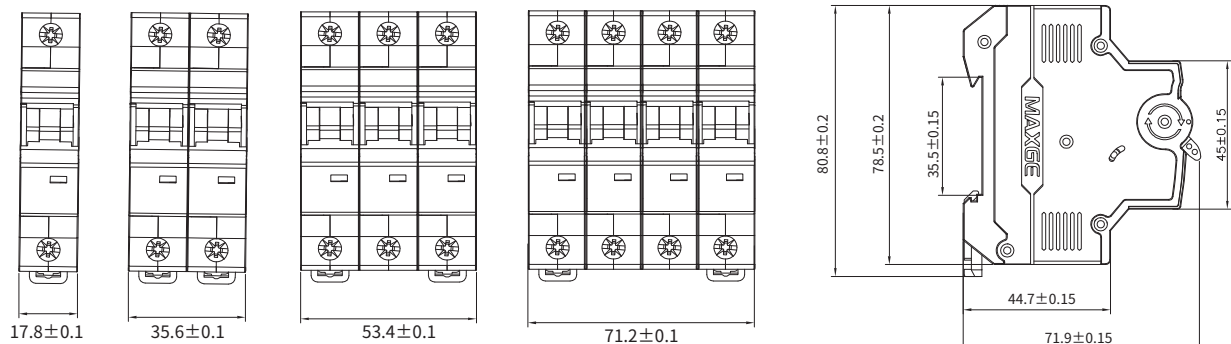
Endurance(operations)

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



SGB-63Me/SGb-63Se/SGb-63Ne