

Products Overview of Circuit Breakers

Product name	DC MCB
Product range	MGB-63M-DC
Product picture	
Standard	IEC/EN 60947-2
Number of poles	1P,2P,3P,4P
Electrical characteristics	
Rated current(A) In	1-63
Rated voltage(V)	DC 120,240
AC rated short-circuit capacity(kA)	
Breaking capacity (Icn/Icu)kA	6
Tripping curve	8-12In
Type	DC
Electrical auxiliaries	-
Catalogue page NO.	70-73

MGB - 63M - DC Series

Miniature Circuit Breaker

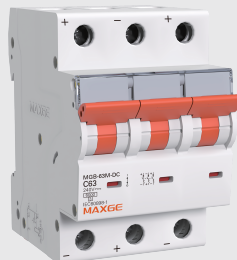
Standard	EN/IEC60947-2
Breaking capacity	6kA
Protection	Against overload and short circuit
Rated current In	1,2,3,4,6,10,13,16,20,25,32,40,50,63A
Rated voltage	DC:
	Rated voltage Ue(VDC): 1P 250 2P 500 3P 750 4P 1000 Operational volatge(VDC): Min.:12 Max :1P 250 2P 500
Ambient temperature (°C)	-5~+40
Characteristic	Thermal operating limit: $(1.05-1.30) \times I_n$ Magnetic operating: $(8-12) \times I_n$
Number of poles	1P,2P,3P 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 up to 25A ratings 25mm ² flexible or 35mm ² rigid from 32A to 63A ratings
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Certification	  



MGB-63M-DC-1P



MGB-63M-DC-2P



MGB-63M-DC-3P



MGB-63M-DC-4P

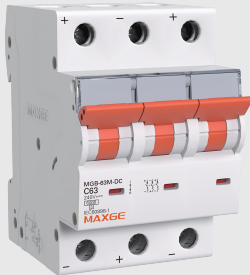
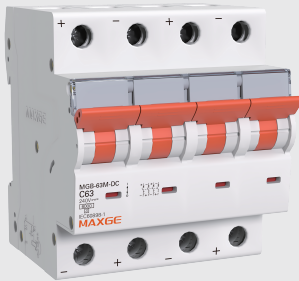
MGB-63M-DC Series

Miniature Circuit Breaker

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

MGB-63M-DC Series

Miniature Circuit Breaker

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

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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	$1.05I_n$	$t \leq 1h$	Non-trip	
2	1-63	upon the previous test	$1.30I_n$	$t < 1h$	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	
	1-63	cold state	$8I_n$ $12I_n$	$t \leq 0.1s$ $t < 0.1s$	Non-trip trip	C type

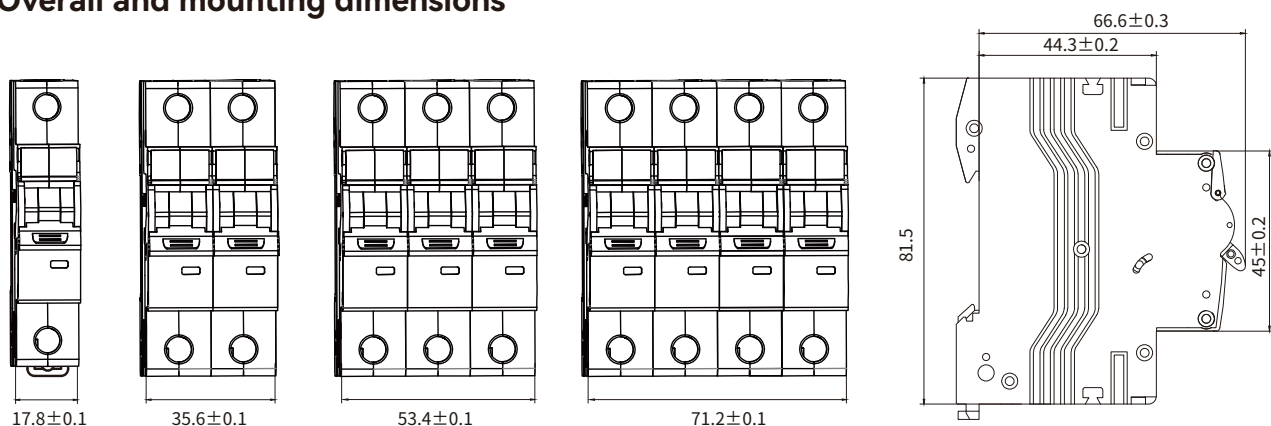
Endurance(operations)

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

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



SGR-63M-DC