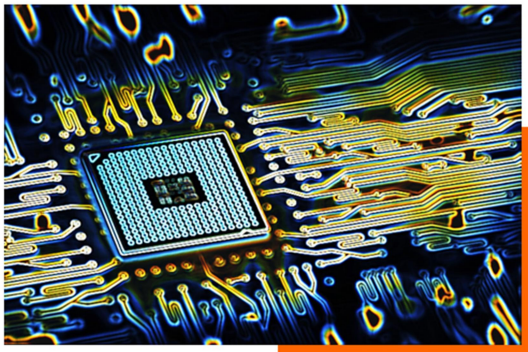
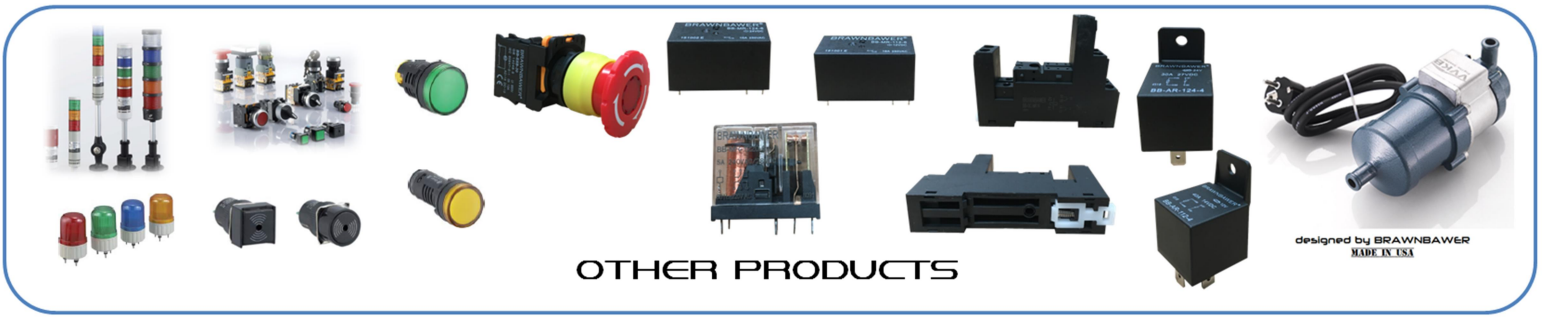


BRAWNBAWER®

TECHNICAL & INDUSTRIAL & ELECTRICAL EQUIPMENT & POWER SYSTEM



Company Profile

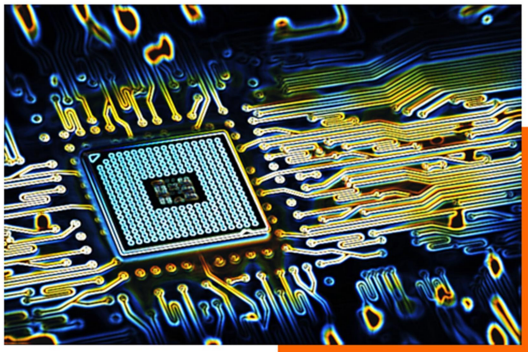
BRAWNBAWER, is a company focused on industrial control electric and mechanic field.

Company employees about 400 people, technical staff accounted for 10%; The company has sales network and offices all over the country provinces and cities, products cover, Germany, Britain, USA, Spain, Italy, Canada, Turkey, India, South / North Africa and more than 10 countries and regions.

BRAWNBAWER, provide service for electricity, communications, chemical industry, mechanical engineering, rail transportation, industrial lighting and automation industries such as customers, product by European Union CE certification, ROHS, CB, IEC, CQC, UL, CCC, , etc.

BRAWNBAWER, self-developed **ATS** (Automatic Transfer Switching Equipment), **MCCB** (Moulded Case Circuit Breakers) , **ACB** (Air Circuit Breakers) , **MCB** (Miniature Circuit Breakers), Miniature Relays, PCB Relays, Automotive Relays, Solid Voltage Regulators, Micro Switchs, push button switchs, energy saving indicator lamp, warning lights, LED light-emitting devices, Buzzer, Emergency Push Buttons, Warning Light, Indicator Bulb, engine pre heaters, such as important areas are widely used and recognized.

BRAWNBAWER, always adhere to the "people- oriented, scientific and technological innovation" the management policy, with "integrity, pragmatic, efficient, innovation" service purposes,to provide intelligent industrial control of electric / mechanic field and reliable solutions.



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MCB

High Breaking Miniature Circuit Breaker

a) BBMC – 6 / 63 Series

I.Scope of Application

This product is suitable for short circuit protection and overload protection, it is used in distribution system for lighting distribution systems or motors. It has compact appearance, light weight, excellent performance, reliable high breaking capacity, rapid release, rail installation, shell and components are made of high impact resistance and flame retardant plastics and long service life, it is mainly used for overload and short circuit protection for power supply which is AC 50Hz, rated voltage to 400V, rated current to 63A, at the same time, electrical equipment and lighting circuits can be broken down frequently under normal conditions.

II.Characteristic

1.Breaking capacity (see Table 1) Table 1

Rated current (A)	Poles	Voltage (V)	Rated ultimate short-circuit breaking capacity		Tripping current range of instantaneous release
			Breaking current	cosΦ	
6、10、16、20 25、32、40	1P	220	4000	0.65~0.7	3In ~ 5In(Type B) 5In ~ 10In(Type C) 10In ~ 20In(Type D)
	2P,3P, 4P	400	4000		
50、63	1P	220	3000	0.75~0.8	
	2P,3P, 4P	400	3000		

2.Protective characteristics of over-current tripping device (see Table 2) Table 2

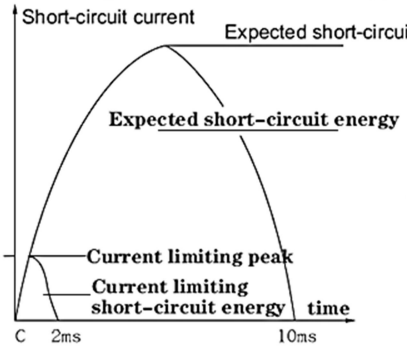
Serial number	Release type	Rated current of release	I/In	Tripping time	Starting state	ambient temp
1	B、C、D	≤63	1.13	t≤1h No tripping	cold state	30℃~50℃
2			1.45	t<1h Tripping	thermal state	
3		≤32	2.55	1s<t<60s Tripping	cold state	
4		>32		1s<t<120s Tripping	cold state	
5	B	Tripping	3	≤0.1s No tripping	cold state	
	C		5			
	D		10			
6	B		5	<0.1 Tripping	cold state	
	C		10			
	D		20			

3.Current limiting characteristic

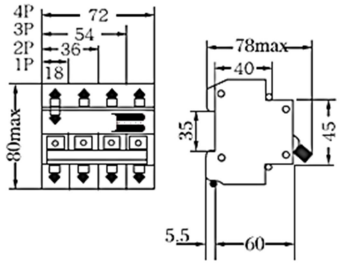
BBMC series miniature circuit breakers have high current limiting capability, thereby limiting the damage performance caused by short-circuit (see current limiting characteristic diagram)

III. Appearance Installation Dimensions

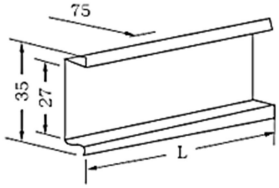
Current limiting characteristic

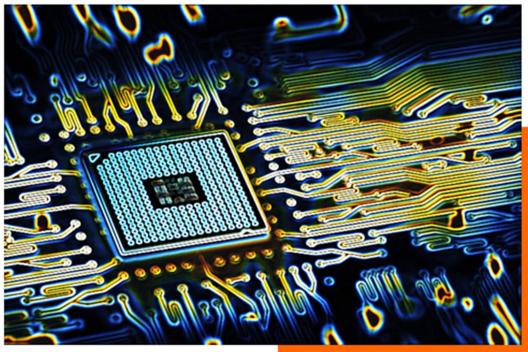


Appearance installation dimensions



DIN-Rail mounting dimensional drawing





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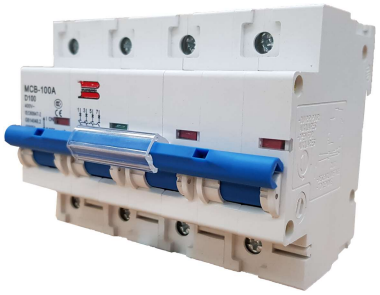
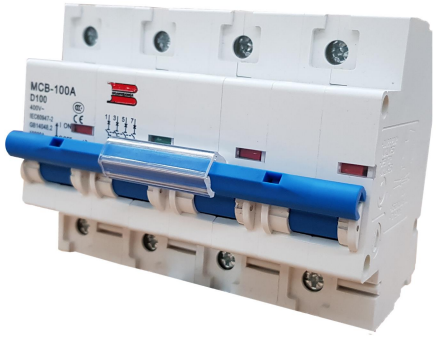




MCB

High Breaking Miniature Circuit Breaker

b) BBMC – 100 / 125 Series

I.Scope of Application

BBMC-125 is suitable for short circuit protection and overload protection, it is used in distribution system for lighting distribution systems or motors. It has compact appearance, light weight, excellent performance, reliable high breaking capacity, rapid release, rail installation, shell and components are made of high impact resistance and flame retardant plastics and long service life, it is mainly used for overload and short circuit protection for power supply which is AC 50Hz, rated voltage to 230/400V, rated current to 125A, at the same time, electrical equipment and lighting circuits can be broken down frequently under normal conditions.

II.Main Technical Parameters

1、Rated current of circuit breaker：63A、80A、100A、125A

2、Poles of circuit breaker: 1P, 2P, 3P, 4P

3、The circuit breaker is an embedded installation (mounted on the mounting rail)

4、Rated working voltage of circuit breaker

5、Rated breaking capacity：Icn=10000A, Ics=7500A

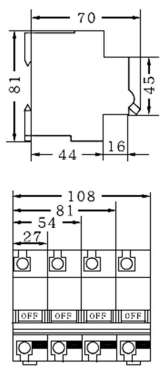
6、Over current tripping characteristics are shown in Table 1 (ambient temperature is 30 ~35 C)

Table 1

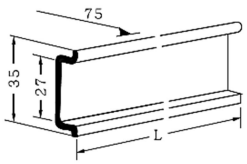
Serial number	Rated current of release	Starting state	Test current	Regulation time	Expected results	Remarks
a	≤63A	cold state	1.05In	t≥1h	No tripping	
	>63A			t≥2h		
b	In≤63A	next to the a test	1.30In	t<1h	Tripping	The current rises steadily to the specified value within 5semarks
	In>63A			t<2h		
c	63、80、100A 、125A	cold state	2.55In	1s<t<120s	Tripping	
d	All values	cold state	5In(10In)	t≥0.1s	No tripping	The value in parentheses is D
e	All values	cold state	10In(20In)	t<0.1s	Tripping	The value in parentheses is D

III. Appearance and Installation Dimensions

Overall dimensions



DIN-Rail mounting dimension



Thermal / electromagnetic tripping characteristic