

BRAWNBAWER®

TECHNICAL & INDUSTRIAL & ELECTRICAL EQUIPMENT & POWER SYSTEM



MAIN PRODUCTS



OTHER PRODUCTS

designed by BRAWNBAWER
MADE IN USA

Company Profile

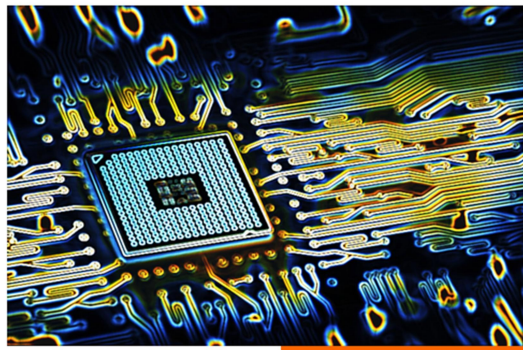
BRAWNBAWER, is a company focused on industrial control electric and mechanic field.

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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MCCB

BBCB Series Moulded Case Circuit Breaker



I. Range of Application

Moulded Case Circuit Breaker (MCCB) is one of the company's new circuit breakers which combined the international advanced design, manufacturing technology and develop. According to its rated limit short circuit sectional capacity (ICU), is divided into L-type (standard type), M-type (high break type), H-type (higher break type). It has the characteristics of small size, high breaking, short flying arc and anti-vibration, and is an ideal product for land and ship use. Its rated insulation voltage 800V (BBCB-63 is 500V), suitable for AC 50HZ, 690V and the following circuit for continuous frequent conversion and motor infrequent start-up. Circuit Breaker has overload, short circuit and under-voltage protection device, which can protect the line and power equipment from being damaged.

Vertical installation and horizontal installation
Meet the standards: IEC60947-2, GB14048.2

III. Specification

Rated current of overcurrent release (A): respectively, BBCB-63: 6, 10, 16, 20, 25, 32, 40, 50, 63A; BBCB-100: 10, 16, 20, 25, 32, 40, 63, 80, 100A; BBCB-250: 100, 125, 140, 160, 180, 200, 225, 250 BBCB-400: 225, 250, 315, 350, 400A BBCB-630: 400, 500, 630A BBCB-800: 630, 700, 800A, BBCB-1000, 1250, 1600A

Note1: The 6A case only have the electromagnetic (instantaneous) type;
Note2: the specifications in the parentheses are not recommended.

II. Types and Classification

MODEL	A	POLE
BBCB-16	16	3/4
BBCB-25	25	3/4
BBCB-32	32	3/4
BBCB-40	40	3/4
BBCB-50	50	3/4
BBCB-63	63	3/4
BBCB-80	80	3/4
BBCB-100	100	3/4
BBCB-125	125	3/4
BBCB-160	160	3/4

MODEL	A	POLE
BBCB-200	200	3/4
BBCB-250	250	3/4
BBCB-300	300	3/4
BBCB-400	400	3/4
BBCB-500	500	3/4
BBCB-630	630	3/4
BBCB-800	800	3/4
BBCB-1000	1000	3/4
BBCB-1250	1250	3/4
BBCB-1600	1600	3/4

IV. Technical Parameters

1. Thermal magnetic circuit breaker has the inverse time characteristic, electromagnetic tripping is instantaneous action, characteristics refer to Table2(power distribution)

Table1

Rated current of the release	Thermal magnetic release (ambient air temperature+40)			Electromagnetic release tripping current(A)
	1.05 In(cold state) no action time(h)	1.30 In(hot state) action time(h)	3.0 In Returns the properties of the current return time(s)	
10 ≤ In ≤ 63	1	1	5	10In ± 20%
63 < In ≤ 100	2	2	8	
100 < In ≤ 800	2	2	12	10In ± 20%和 5In ± 20%

2. Productive motor refer to Table3(ambient air temperature 40°C)

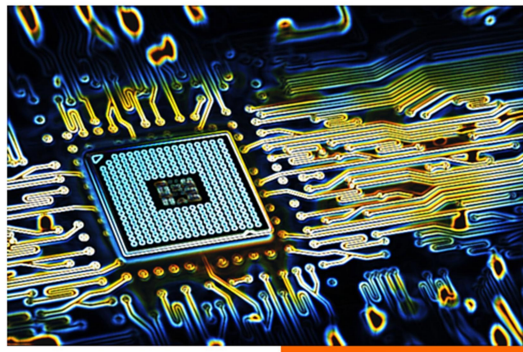
Table2

Testing current name	The multiple of rated current	Time		Initial State
		10 ≤ In ≤ 225	225 < In ≤ 800	
Conventional non-tripping current	1.0			Cold State
	1.2			Hot State
Conventional tripping current	1.5	<4min	<8min	Hot State
	7.2	4s < Tp ≤ 10s	6s < Tp ≤ 20s	Cold State

3. The current of the protective electric motor of the electromagnetic release is 12In ± 20% (A)

4. If the applied voltage of the shunt release is between 70%~110% of the rated control power voltage, it can reliably breaking the circuit breaker.

5. When the supply voltage drops to the rage of 70%~35% of the rated working voltage of the under-voltage release, the under-voltage release can reliably breaking the circuit breaker. If the supply voltage is below 35% of the normal-voltage of the under-voltage release, the under-voltage release could prevent the breaker of closing; when the supply voltage is above 85% of the rated working voltage of the under-voltage, the under-voltage could ensure the breaking closing.



V. Appearance and Mounting Dimension

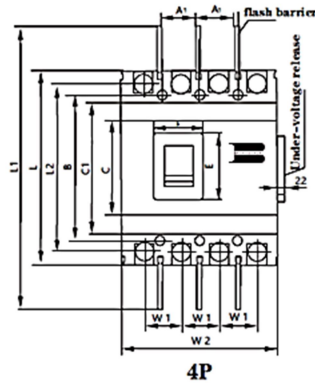
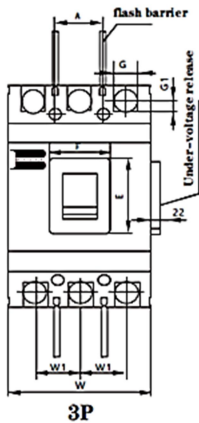


Table 3.

Specification	Pole	Appearance dimension																	Mounting dimension					
		C	C1	E	F	G	G1	H	H1	H2	H3	H4	H5	L	L1	L2	W	W1	W2	A1	A	B	φd	
BBCB-63L	3	85	/	48	22	14	6.5	74	90.5	28	4	6	/	135	235	117	76	25	/	/	25	117	4.5	
BBCB-63M	3	85	/	48	22	14	6.5	74	90.5	28	4	6	/	135	235	117	76	25	102.5	/	/	25	117	4.5
BBCB-125L	3	84	/	50.5	22	17.5	7.5	68	86	24	4	7	/	150	255	136	90	30	/	/	30	130.5	4.5x6	
BBCB-125M	3	84	/	50.5	22	17.5	7.5	68	86	24	4	7	/	150	255	136	90	30	/	/	30	130.5	4.5x6	
BBCB-125H																								
BBCB-250L	3	102	/	50	22	23	11.5	86	110	24	4	5	/	165	360	144	105	35	/	/	35	126	4.5x6	
BBCB-250M	3	102	/	50	22	23	11.5	103	127	24	4	5	/	165	360	144	105	35	140	/	35	126	4.5x6	
BBCB-250H																								
BBCB-400L																								
BBCB-400M	3	127.5	173.5	88.5	65	30.5	11	105	155	38	6.5	5.5	5	257	457	224	150	48	/	/	44	194	7	
BBCB-400H																								
BBCB-400L																								
BBCB-400M	4	127.5	173.5	88.5	65	30.5	12	105	155	38	6	5	4.5	257	457	224	/	48	197.5	50	44	194	7	
BBCB-400H																								
BBCB-630L																								
BBCB-630M	3	134	184.5	89	65.5	44	13.5	110	160	43	7	3.5	4.5	270	470	234	182	58	/	/	58	200	7	
BBCB-630H																								
BBCB-630L																								
BBCB-630M	4	134	184.5	89	65.5	44	15.5	110	160	43	6.5	3.5	4.5	270	470	234	/	58	240	58	58	200	7	
BBCB-630H																								
BBCB-800L																								
BBCB-800M	3	136	204	81	66	45	12.5	116	147	32	4.5	5	8	280	470	243	210	70	210	/	70	243	7	
BBCB-800H																								
BBCB-800L																								
BBCB-800M	4	136	204	81	66	45	12	116	168	41.5	4.5	5	8	280	485	243	/	70	280	/	70	243	7	
BBCB-800H																								
BBCB-1250																								
BBCB-1250	3	/	/	100	78	45	/	139	190	55	/	/	/	330	470	/	210	70	280	/	70	300	/	
BBCB-1250	4	/	/	100	78	45	/	139	190	55	/	/	/	330	470	/	280	70	280	/	70	300	/	
BBCB-1600	3	/	/	100	78	45	/	139	190	55	/	/	/	330	510	/	210	70	280	/	70	300	/	
BBCB-1600	4	/	/	100	78	45	/	139	190	55	/	/	/	330	510	/	280	70	280	/	70	300	/	