BB1-63

PV Miniature Circuit Breakers

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BB1-63

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SAA-151113-EA

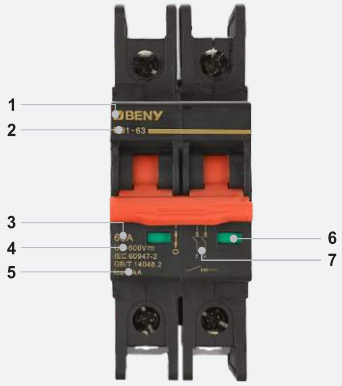
1 Brand
2 Type
3 Rated Current
4 Rated Voltage
5 Standard Code
6 Indicator
7 Wiring Diagram

- Nonpolarity
- High Short-Circuit / Breaking Capacity
- Functions: Overload, Short Circuit, Unfrequent Operation and, Anti-reflux Protection
- Rated Voltage: 1200V, Ultimate
- Breaking Capacity : 6kA
- Rated Current: 63A
- Comply with : IEC 60947-2/GB/T 14048.2

Application

ZBENY BB1 Series PV Mini Circuit Breakers are mainly applied to DC solar combiner box ,Controller etc. The main function include overload protection ,Anti-reflux protection and short-circuit protection. Scientific design of arc-extinguishing system keep solar system more safe. Max Voltage up to 1200V DC, current up to 63A.

Appearance Introduction



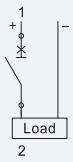
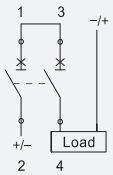
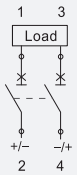
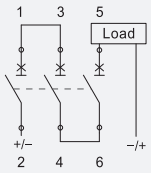
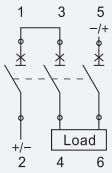
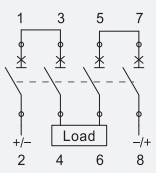
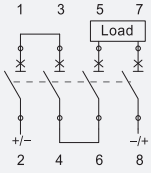
Type Instruction

BB1	-	63	/	MF	4P	25	1200V
Product Code		Max Rated Current		Accessory	Pole	Rated Current	Rated Voltage
PV Miniature Circuit Breakers		63A		MF:MX+OF Shunt Release&Auxiliary Contact MX:Shunt Release OF:Auxiliary Contact Without:BB1-63 Noumenon	1P 2P 3P 4P	3A,4A ,6A,10A, 13A,16A,20A, 25A,32A,40A, 50A,63A	300V 600V 900V 1200V

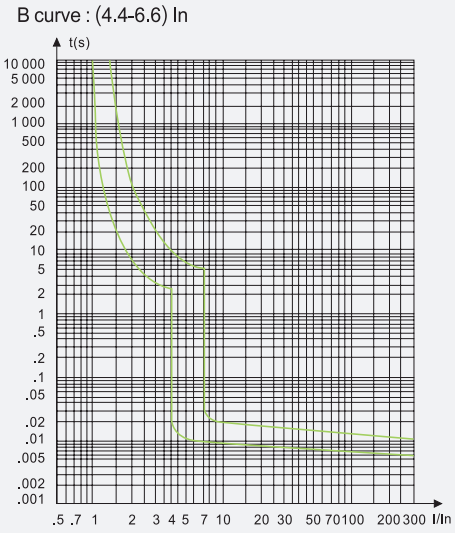
Parameter

Electrical Characteristics					
Type		BB1-63			
Comply with		IEC 60947-2/GB/T 14048.2			
Pole		1P	2P	3P	4P
Rated Working Voltage	Ue	300V DC	600V DC	900V DC	1200V DC
Max Rated Current		63A			
Rated Current	In	3A, 4A, 6A,10A,13A,16A,20A,25A,32A,40A,50A,63A			
Rated Insulated Voltage	Ui	1200V DC			
Rated Impulsed Voltage	Uimp	6kV			
Ultimate Breaking Capacity	Icu	6kA			
Run Breaking Capacity	Ics	6kA			
Tripping Type		Thermal Magnetic Type			
Service Life/cycle Operation					
Mechanical	Actual Value	20000			
	Standard Value	8500			
Electrical	Actual Value	1000			
	Standard Value	300			
Installation Environment					
Ingress Protection		All Sides IP40 ,Connection Terminal IP20			
Terminal Cross Section		2.5-25mm^2			
Working Temperature		-25°C ~ +70°C			
Storage Temperature		-40°C ~ +85°C			
Resistance to Humidity And Heat		Ⅱ (when temperature arrived to 55°C,Relative Humidity95%)			
Resistance to Shock		2.6 IEC60068			
Resistance to Impack		2.27 IEC60068			

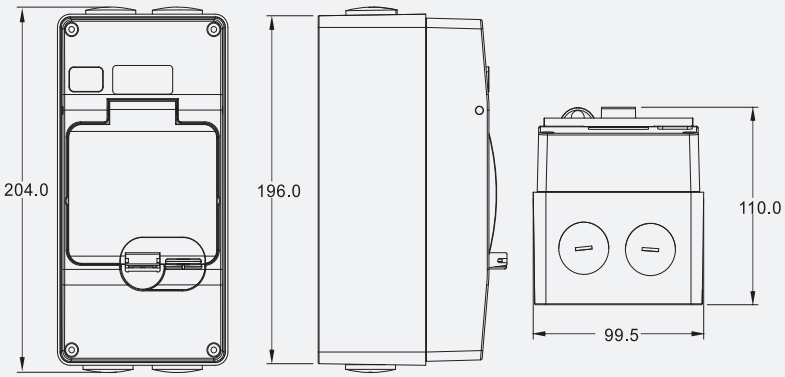
Wiring Method

Pole	1P	2P		3P		4P	
Type							
	1A	2A	2B	3A	3B	4A	4B
Contacts Wiring graph							

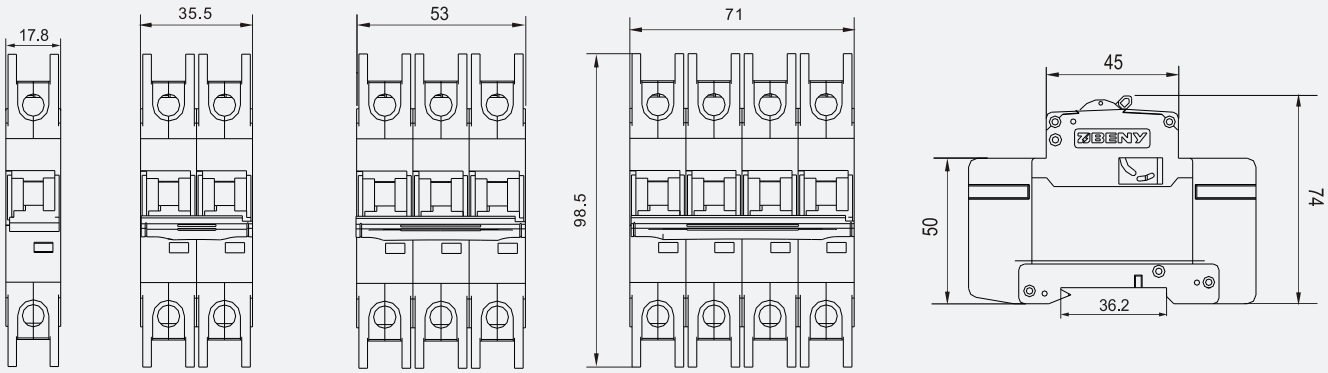
Characteristic Curve



Dimensions(mm)



Dimensions(mm)

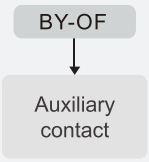


Auxiliary contact for BB1-63

Auxiliary contact unit must be mounted from the left to the device or to the release unit(s) when installed. Contact units are equipped with changeover (CO) combination(s) of contacts.

Type Instruction

- **Auxiliary contact synchronnous with main contacts of device**
- **According to IEC/EN 62019**



Auxiliary contact

Electrical parameters

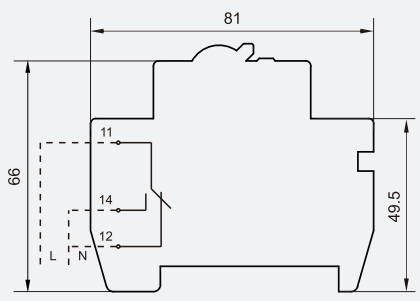
		BY-OF
Contacts		2changeover
Contact function		auxiliary contact
Tested according to		IEC/EN 62019
Rated op. voltage	AC12	Ie=3A Ue=380/415V
	DC 12	Ie=1A Ue=110/125V
Min. op. current per contact I_{min}		10 mA
Min. op. voltage per contact U_{min}		11V DC
Rated frequency		50/60 Hz

Mechanical parameters

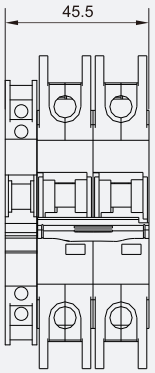
Mounting	easy fastening onto 35 mm device rail
Degree of protection	(DIN)IP20
Terminals	lift
Terminal capacity	≤1mm²
Fastening torque of terminals	0.8 — 1 N·m
Working tempreture	- 35 ~ + 70 ℃



Dimensions(mm) (With Auxiliary Contact)







Shunt Release for BB1-63

- **Shunt Release for installation devices BB1-63**
- **Shunt release**
- **According to IEC/EN 62019**

Type Instruction

BY-MX

↓

Shunt release

Shunt release

Electrical parameters

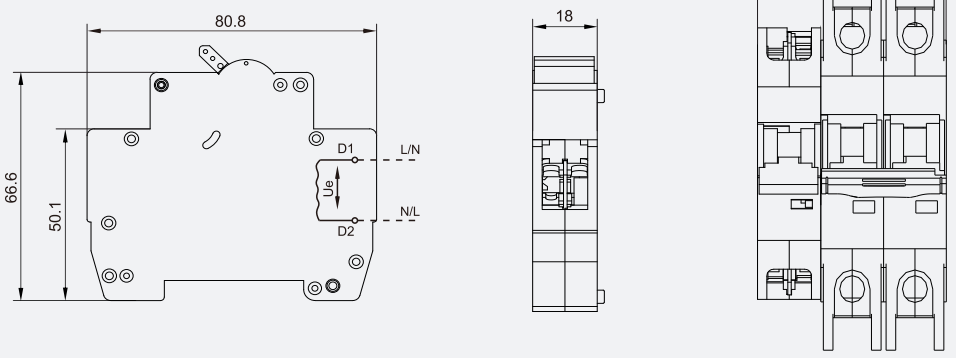
		BY-MX
Contacts		1 changeover (CO)
Contact function		Shunt release
Tested according to		IEC/EN 60947-5-1
Rated op. voltage	AC	Ie=2A Ue=220/415V
	AC	Ie=2A Ue=24/48V
	DC	Ie=2A Ue=24/48V
Min. op. voltage		Ue*75%
Max. op. voltage		Ue*110%
Starting current		1 A
Rated frequency		50/60 Hz

Mechanical parameters

Mounting	easy fastening onto 35 mm device rail
Degree of protection	(DIN) IP20
Terminals	lift
Terminal capacity	≤1mm²
Fastening torque of terminals	0.8 — 1 N·m
Working tempreture	- 35 ~ + 70℃



Dimensions(mm) (With Shunt Release)



Shunt Release and Auxiliary contact for BB1-63

- **Shunt Release and Auxiliary contact for installation devices BB1-63**
- **Shunt release and Auxiliary contact**

Type Instruction

BY-MF

↓

Shunt release
&
Auxiliary contact

BY-MF

Electrical parameters

			BY-MF
Contacts			2changeover (CO)
Contact function			Shunt Release&Auxiliary Contact
Rated op. voltage	Shunt release	AC	Ie=2A Ue=220/415V
			Ie=2A Ue=24/48V
		DC	Ie=2A Ue=24/48V
	Auxiliary contact	AC	Ie=3A Ue=220/415V
Rated frequency			50/60 Hz

Mechanical parameters

Mounting	easy fastening onto 35 mm device rail
Degree of protection	(DIN)IP20
Terminals	lift
Terminal capacity	≤1mm²
Fastening torque of terminals	0.8 — 1 N·m
Working tempreture	- 35 ~ + 70



Dimensions(mm)(With Shunt Release&Auxiliary Contact)

