

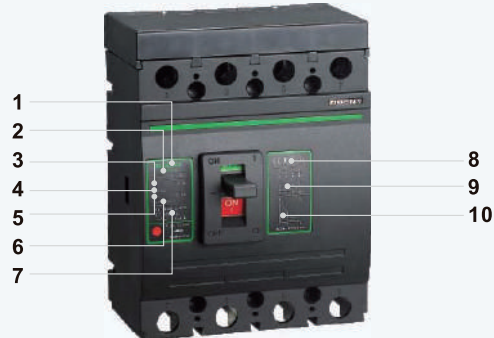
BD Series PV DC Moulded Case Circuit Breaker



Application

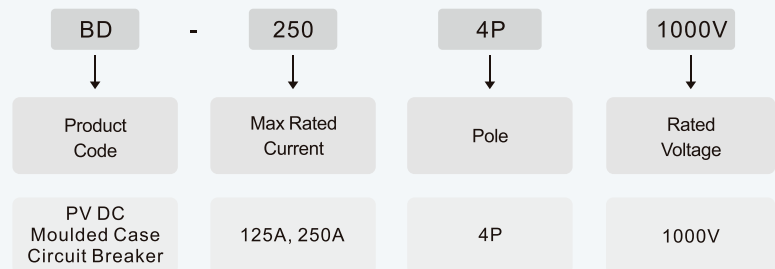
ZIBENY BD series PV DC Moulded Case Circuit Breaker (MCCB) are mainly used in large solar power system, which are applied for solar DC combiner box , inverter and DC power distribution cabinet. Rated voltage up to 1000V DC, current up to 250A , with the function of overload protection and short-circuit protection.

Appearance Introduction



- 1 Brand
- 2 Type
- 3 Rated Current
- 4 Rated Voltage
- 5 Breaking Capacity
- 6 Operation Breaking Capacity
- 7 Standard Code
- 8 Certificate Symbol
- 9 Wiring Diagram
- 10 Characteristic Curve

Type Instruction

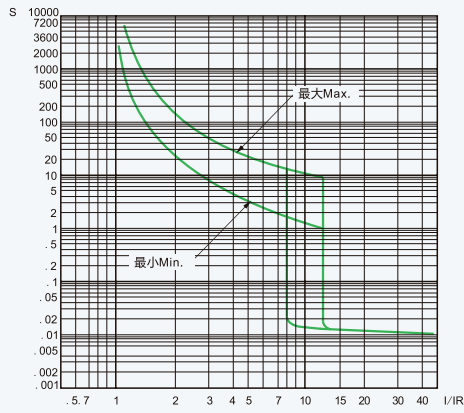


- High Short-Circuit/Breaking Capacity
- Protection Functions: Overload, Short circuit , Unfrequent Operation
- Rated Voltage up to 1000V DC
- Rated Current 125A,250A
- IEC60947-2, GB14048-2
- Easy Installation

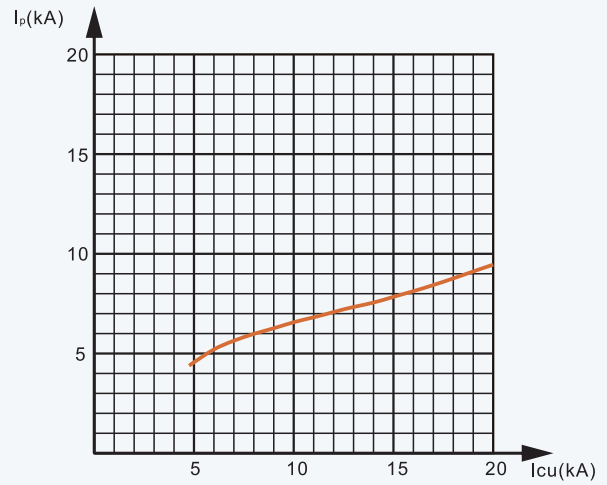
Parameter

BD series PV DC MCCB						
Type		BD-125		BD-250		
Pole		4P		4P		
Max Rated Current		125A		250A		
Electrical Characteristics						
Rated Working Voltage	U _e	1000V DC		1000V DC		
Rated Current	I _n (A)	63/80 100/125	125	160	200	250
Rated Insulated Voltage	U _i	1000V DC				
Rated Impulsed Voltage	U _{imp}	8KV				
1 Min Power Frequency Withstand Voltage		3.8 KV		3.8 KV		
Ultimate Breaking Capacity	I _{cu}	20 KA		20 KA		
Run Breaking Capacity	I _{cs}	15 KA		15 KA		
4D Wiring Resistance			0.025mΩ	0.020mΩ	0.015mΩ	0.011mΩ
4D Power loss	I ² R(W)		0.39	0.51	0.6	0.69
Protection						
Tripping Type		Thermal Magnetic Type				
Control And Indication						
Control Mode	Manual	Direct (RHD)		Optional		
		Extended(ERH)		Optional		
	MOD			Optional		
Shunt Release (SHT)				Optional		
Auxiliary Release				Optional		
Terminal End Cover				Yes		
Interphase Barriers				Yes		
Service Life/Cycle Operation						
Mechanical		14000		14000		
Electrical		2000		2000		
Size (L x W x H)		150.5x122x92.5		165x140x88		
Ingress Protection		All Sides IP40 ,Connection Terminal IP20				
Installation Environment						
Comply With		IEC60947-2/GB14048.2				
Storage Temperature		-40°C~+85°C				
Wire size (min.-max.)		16mm ² - 50mm ²		50mm ² - 120mm ²		

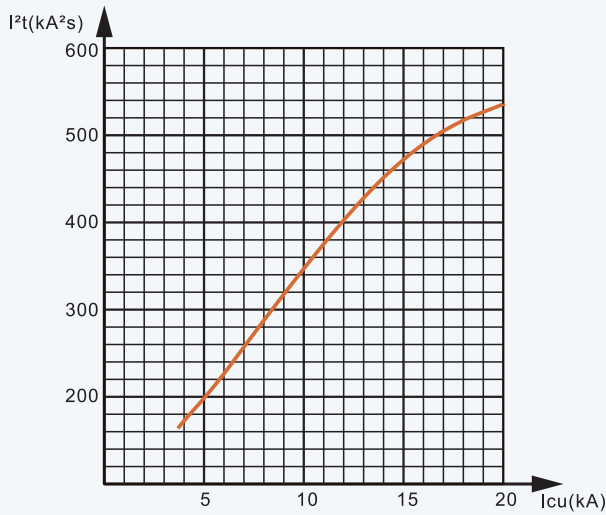
Characteristic Curve



Peak limit current curve



Thermal Stress



Test Data

BD-250/4P Ue=1000V In=250A T=10ms

Icu	5kA	10kA	15kA	20kA
Ip	4.5kA	6.5kA	7.8kA	8.5kA
I²t	195kA²s	352kA²s	472kA²s	544kA²s

Type	BD-125	BD-250
Picture		

Type Code	4A	4B	4C	4D	4S
Contacts Wiring graph					

Dimensions(mm)

125A	250A



Visit Our Website
www.maxima.solar

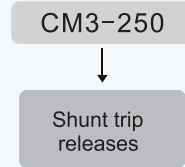
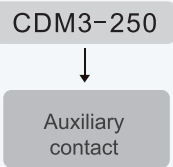


Call Us
+971 4 2231185



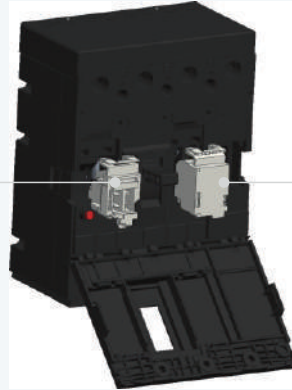
Our Address
Shop No. 19, SUQ Al Kaber Building,
Bur Dubai, Dubai, UAE

Type Instruction



Auxiliary Contact

Shunt Release



- Auxiliary contacts synchronous with main contacts of device
- Auxiliary Contacts is mounted on the left
- According to IEC/EN 62019

- Shunt Release for installation devices BD-250
- Shunt Release is mounted on the right
- According to IEC/EN 62019

Auxiliary contact unit

Electrical parameters

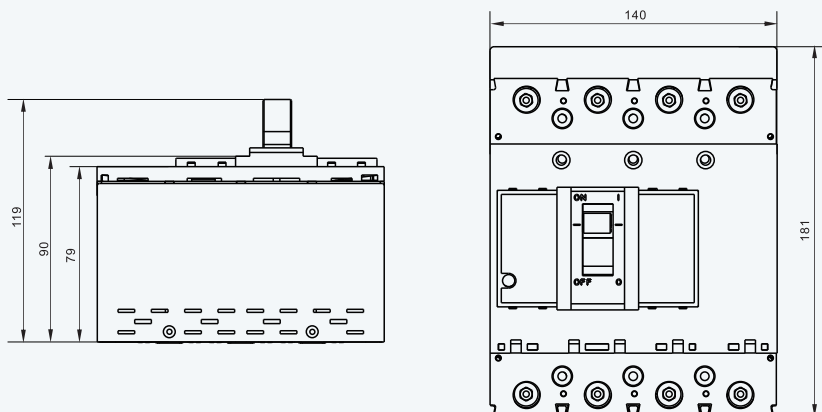
		CDM3-250	
Contacts		1 changeover (CO)	
Contact function		auxiliary	
Tested according to		IEC/EN 62019	
Rated op. voltage	AC 13	le=3A	Ue=250V
	AC 15	le=2A	Ue=250V
	DC 12	le=0.5A	Ue=110V
Min. op. current per contact I_{min}		10 mA	
Min. op. voltage per contact U_{min}		11V DC	
Rated frequency		50/60 Hz	

Shunt trip releases

Electrical parameters

		CM3-250	
Contacts		1 changeover (CO)	
Contact function		Shunt trip releases	
Tested according to		IEC/EN 62019	
Rated op. voltage	AC	le=2A	Ue=220/415V
	DC	le=2A	Ue=24/48V
Min. op. voltage		8.4 V	
Min. op. current		1A	
Max. op. voltage		26.4 V	
Max. op. current		2A	
Rated frequency		50/60 Hz	

Dimensions(mm)



Visit Our Website
www.maxima.solar



Call Us
+971 4 2231185



Our Address
Shop No. 19, SUQ Al Kaber Building,
Bur Dubai, Dubai, UAE