ZBENY

BD Series PV DC Moulded Case Circuit Breaker

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- High Short-Circuit/Breaking Capacity
- Protection Functions: Overload, Short circuit , Unfrequent Operation
- Rated Voltage up to 1000V DC
- Rated Current 125A,250A
- IEC 60947-2, GB/T 14048.2
- Easy Installation

Application

ZBENY 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

Type Instruction

BD	-	250	4P	1000V
Product Code		Max Rated Current	Pole	Rated Voltage
PV DC Moulded Case Circuit Breaker		125A, 250A	4P	1000V

Parameter

BD series PV DC MCCB				
Type			BD-125	BD-250
Pole			4P	4P
Max Rated Current			125A	250A
Electrical Characteristics				
Rated Working Voltage	Ue		1000V DC	1000V DC
Rated Current	In(A)		63/80 100/125	125/160 200/250
Rated Insulated Voltage	Ui		1000V DC	
Rated Impulsed Voltage	Uimp		8KV	
1 Min Power Frequency Withstand Voltage			3.8 KV	3.8 KV
Ultimate Breaking Capacity	Icu		20 KA	20 KA
Run Breaking Capacity	Ics		15 KA	15 KA
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	
Wiring screw/tightening torque			M8*20mm/≤11N.m	
Mounting screw/tightening torque			M4*75mm/≤2.4N.m	

Characteristic Curve

Type	BD-125	BD-250
Picture		

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

Dimensions(mm)

125A	250A

Type Instruction

CDM3-250 → Auxiliary contact

CM3-250 → Shunt trip releases

- **Auxiliary contacts synchronnous 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	Ie=3A Ue=250V
	AC 15	Ie=2A Ue=250V
	DC 12	Ie=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	Ie=2A Ue=220/415V
		Ie=2A Ue=24/48V
	DC	Ie=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)