

# 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 500V DC
- Rated Current 125A / 250A
- IEC60947-2, GB14048-2
- Easy Installation

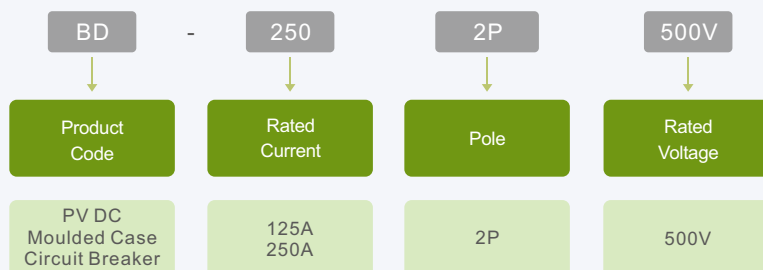
## Application

**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 500V DC, current up to 250A , with the function of overload protection and short-circuit protection.

## Appearance Introduction



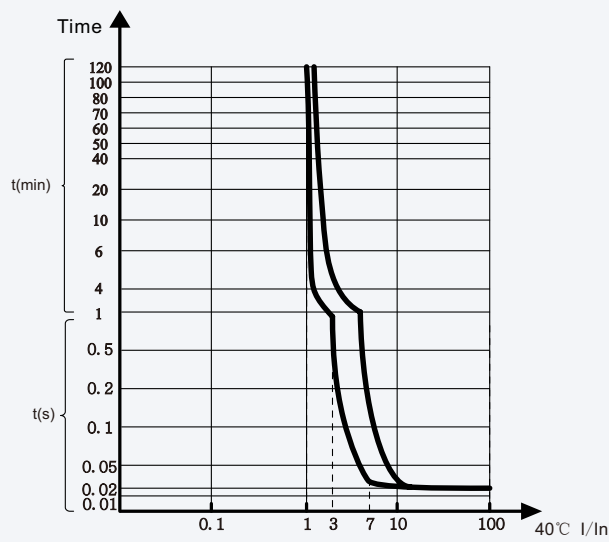
## Type Instruction



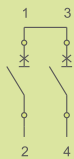
## Parameter

| BD series PV DC MCCB                    |        |                       |                                          |           |                        |
|-----------------------------------------|--------|-----------------------|------------------------------------------|-----------|------------------------|
| Type                                    |        | BD-125/2P             |                                          | BD-250/2P |                        |
| Pole                                    |        | 2P                    |                                          |           |                        |
| Rated Current                           |        | 125A                  |                                          | 250A      |                        |
| Electrical Characteristics              |        |                       |                                          |           |                        |
| Rated Working Voltage                   |        | Ue                    | 500V DC                                  |           |                        |
| Rated Current                           |        | In(A)                 | 65A, 80A, 100A, 125A                     |           | 125A, 160A, 200A, 250A |
| Rated Insulated Voltage                 |        | Ui                    | 500V DC                                  |           |                        |
| Rated Impulsed Voltage                  |        | Uimp                  | 8KV                                      |           |                        |
| 1 Min Power Frequency Withstand Voltage |        |                       | 3.8 KV                                   |           |                        |
| Ultimate Breaking Capacity              |        | Icu                   | 15 KA                                    |           |                        |
| Run Breaking Capacity                   |        | Ics                   | 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                              |        |                       | 10000                                    |           |                        |
| Electrical                              |        |                       | 2000                                     |           |                        |
| Size (L x W x H)                        |        |                       | 150.5x64.5x119mm                         |           | 164.5x79.5x118mm       |
| Ingress Protection                      |        |                       | All Sides IP40 ,Connection Terminal IP20 |           |                        |
| Installation Environment                |        |                       |                                          |           |                        |
| Comply With                             |        |                       | IEC60947-2/GB14048.2                     |           |                        |
| Storage Temperature                     |        |                       | -40℃~+70℃                                |           |                        |

Characteristic Curve



DC Circuit Breakers

| Type                     | BD-125/2P                                                                           | BD-250/2P                                                                            |
|--------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Picture                  |   |  |
| Contacts<br>Wiring graph |  |   |

Dimensions(mm)

