

# DC NO-POLARITY BREAKER

EDB1-125 series DC No-Polarity Miniature Circuit Breaker



## Product Application

The circuit breaker has the functions of short circuit protection, overload protection, control, isolation and so on. It is especially suitable for the energy storage system and battery protection.

## Product Benefits

- Overload and the short circuit protection function
- Rated short circuit breaking capacity up to 10 kA
- Non-polarity and Polarity both available
- Rated Current  $I_n$  up to 250A
- Rated Voltage up to 200V
- Designed for PV, energy storage and other DC applications
- AS/NZS 60947.2 and IEC 60947-2 standard



## Select Code

E	D	B	1	-	125	□ / □	□ / □
1	2	3	4	5	6	7	8

Code	Name	Description
1	<b>ASwich</b> brand	E
2	DC	D
3	Miniature Circuit Breaker	B
4	Frame Current	125A
5	Breaking Capacity	Nil:6kA H:10kA
6	Tripping curve	B C
7	Rated current	63:63A 80:80A 100:100A 125:125A 250:250A
8	Poles	1:1P 2:2P 2H

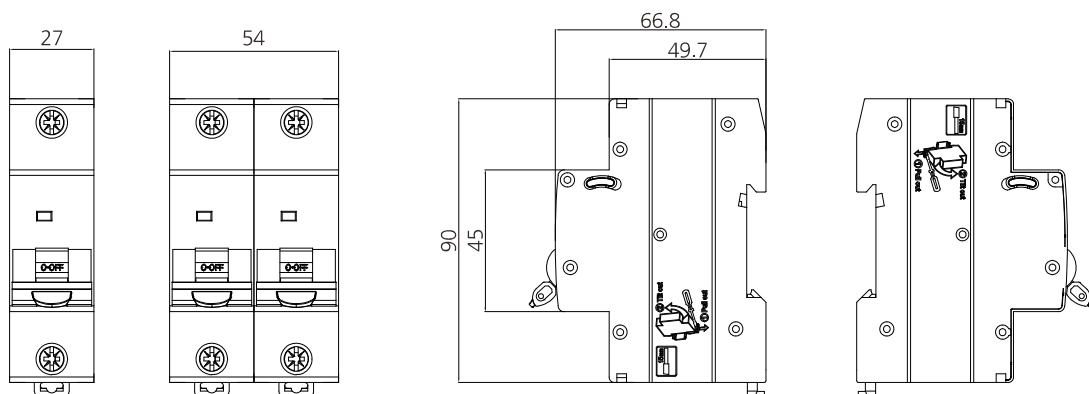
## EDB1-125 series DC No-Polarity Miniature Circuit Breaker

### Technical Data

According to AS/NZS 60947.2, IEC 60947-2

Pole		1P	2P	2H
Rated Working Voltage	Ue	100V	100V / 200V	100V
Frame Current		125A		
Rated CurrentIn		10A, 16A, 20A, 25A, 32A, 40A, 50A		250A
125A Frame		63A, 80A, 100A, 125A		
Rated Insulation Voltage	Ui	500V		
Rated Impulse Withstand Voltage	Uimp	6kV		
Tripping Characteristics		B/C		
Tripping Type		Thermal Magnetic		
Rated Ultimate Short-Circuit Breaking Capacity	Icu	6/10kA		
Rated Service Short-Circuit Interrupting Capacity	Ics	6/7.5kA		
Electrical Life	Actual	2000 Cycles		
	Standard	1000 Cycles		
Mechanical Life	Actual	20000 Cycles		
	Standard	7000 Cycles		
Overvoltage Category		III		
Pollution Degree		3		
Ingress Protection		IP40; Wiring port IP20		
Resistance to humidity and heat		Class 2		
Relative Humidity		≤95 %		
Vibration		acc. to IEC60068-2-6		
Shocks		acc. to IEC60068-2-27		
Terminal capacity		2.5~25mm <sup>2</sup>		
Tightening Torque of Terminals		2.0~2.5 N·m		
Ambient Temperature		-30°C~70°C		
Storage Temperature		-40°C~85°C		
Installation Method		DIN		
Elevation		≤2000m		
Weight		158.2g	316.4g	

### Dimensions

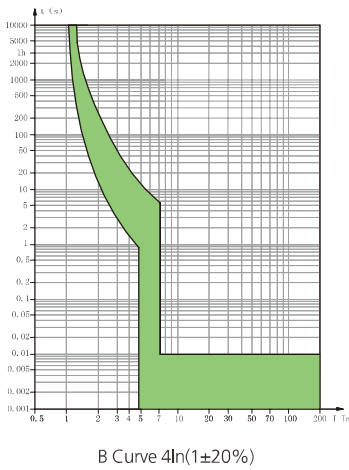


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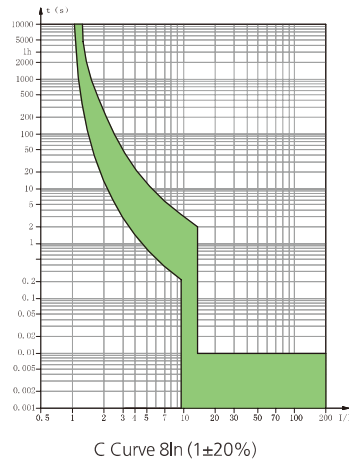
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### Contacts Configurations

Pole	1P	2P	2H
Contacts Configurations			

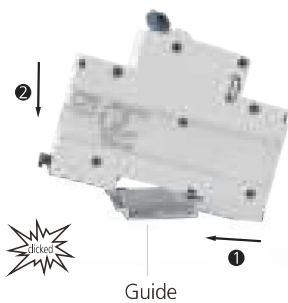


- $Int=1.05In:t \leq 1h$
- $It=1.3In:t < 1h$
- $2.55In:t=1-60s(In \leq 32A)$   
 $t=1-120s(In > 32A)$
- Suitable for pure resistive load and microinductive circuit
- Available to rated current of 10A ~63A (63A Frame), 80A ~ 125A(125A Frame)
- Instantaneous tripping range:  $4In \pm 20\%$



- $Int=1.05In:t \leq 1h$
- $It=1.3In:t < 1h$
- $2.55In:t=1-60s(In \leq 32A)$   
 $t=1-120s(In > 32A)$
- Suitable for general load and power distribution circuit
- Available to rated current of 10A ~63A (63A Frame), 80A ~ 125A(125A Frame)
- Instantaneous tripping range:  $8In \pm 20\%$

### Installation



### Disassemble

