

Dc no-Polarity isolated switch

EDB1-63 series DC isolated switch

Leading Manufacturer Protects Solar Power Safety

Rev1.0 2022/05/16



DC NO-POLARITY ISOLATED SWITCH

EDB1-63 series DC isolated switch



Product Application

EDB1-63 Series PV DC Isolator switches are mainly be used in PV solar power system, which are applied for DC solar combiner box. controller etc. The Max voltage up to 1000V DC, current up to 63A.

Product Benefits

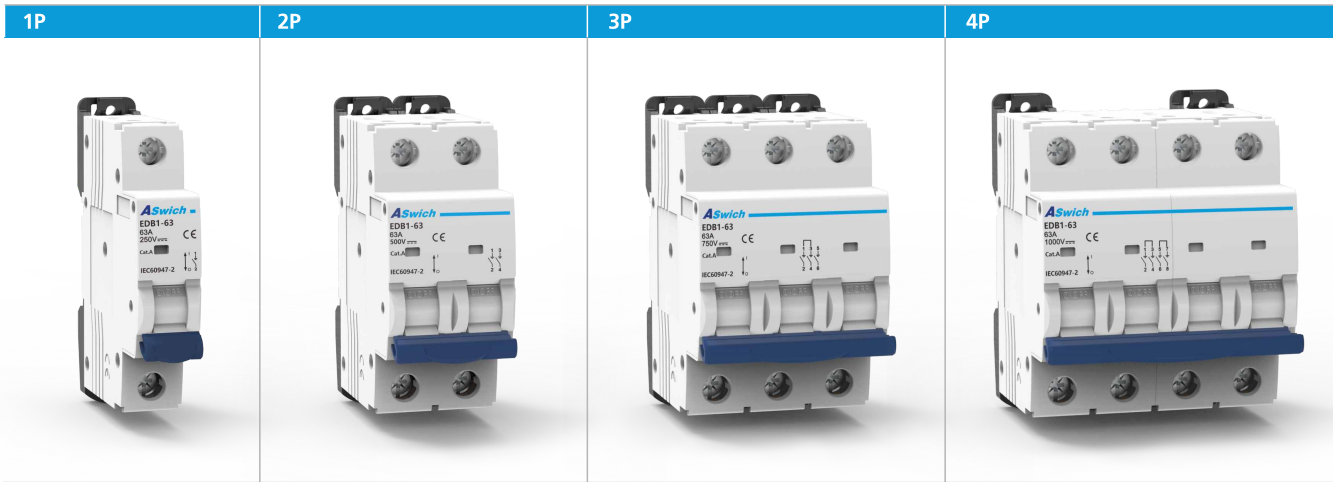
- Functions: Unfrequent operation and Isolation
- Rated Current:Up to 63A
- Rated Voltage:1000VDC
- Comply with:IEC60947-3 GB/T 14048.3

Select Code

E	D	B	1	-	63	/	□	/	□
1	2	3			4		5		6

Code	Name	Description
1	ASwisch brand	E
2	DC	D
3	Miniature Circuit Breaker	B
4	Frame Current	63A
5	Rated current	10:10A 32:32A 16:16A 40:40A 20:20A 50:50A 25:25A 63:63A
6	Poles	1:1P 2:2P 3:3P 4:4P

Appearance Introduction



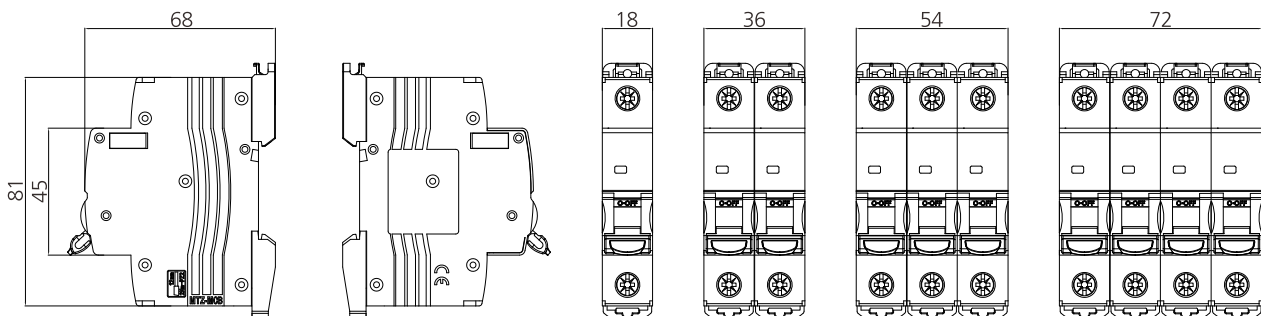
EDB1-63 series DC isolated switch

According to EN60947-3, AS/NZS 60947.3

Technical Data						
Pole		1P	2P	3P	4P	
Rated Working Voltage		Ue	250V DC	500V DC	750V DC	1000V DC
Frame Current		63A				
Rated Current		In	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A			
Rated Insulation Voltage		Ui	1000V			
Rated Impulse Withstand Voltage		Uimp	6kV			
Electrical Life	Actual	2000 Cycles				
	Standard	1500 Cycles				
Mechanical Life	Actual	20000 Cycles				
	Standard	8500 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		2.5-25mm²				
Fastening Torque of Terminals		2.5 N·m				
Ambient Temperature		-30°C~70°C				
Storage Temperature		-40°C~85°C				
Installation Method		DIN				
Elevation		≤2000m				
Dimension	Width: 18mm/Pole					
	High: 92mm					
	Depth: 74mm					

Contacts Configurations				
Pole	1P	2P	3P	4P
Contacts Configurations				

Dimensions



DC NO-POLARITY BREAKER

EDB1-63 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 suitable for terminal power distribution, civil construction, energy control, communication, and infrastructure construction fields.

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 In up to 63A
- Rated Voltage up to 1000V
- Designed for PV, energy storage and other DC applications
- AS/NZS 60947.2 and IEC 60947-2 standard



Select Code

E 1	D 2	B 3	1 - 63	4	5	6	7	8	9
Code	Name		Description						
1	ASwisch brand		E						
2	DC		D						
3	Miniature Circuit Breaker		B						
4	Frame Current		63A						
5	Breaking Capacity		Nil: 6kA H: 10kA						
6	Tripping curve		B C						
7	Rated current		10:10A 32:32A 16:16A 40:40A 20:20A 50:50A 25:25A 63:63A						
8	Poles		1:1P 2:2P 3:3P 4:4P						
9	Rated Working Voltage		Nil: Normal Voltage H: High Voltage						

EDB1-63 series DC No-Polarity Miniature Circuit Breaker

Appearance Introduction



Technical Data

According to EN60947-2, AS/NZS 60947.2

Pole			1P	2P	3P	4P
Rated Working Voltage	Normal Voltage	Ue	250V DC	500V DC	750V DC	1000V DC
	High Voltage	Ue	300V DC	600V DC	900V DC	
Frame Current			63A			
Rated Current			In 10A,16A, 20A, 25A, 32A,40A, 50A, 63A			
Rated Insulation Voltage			Ui 1000V			
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 6/7.5 kA			
Electrical Life	Actual		2000 Cycles			
	Standard		1500 Cycles			
Mechanical Life	Actual		20000 Cycles			
	Standard		8500 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			2.5-25mm²			
Fastening Torque of Terminals			2.5 N·m			
Ambient Temperature			-30°C~70°C			
Storage Temperature			-40°C~85°C			
Installation Method			DIN			
Elevation			≤2000m			
Dimension			Width:18mm/Pole			
			High: 68mm			
			Depth: 81mm			
Weight			125.3g	250.55g	375.9g	501.1g

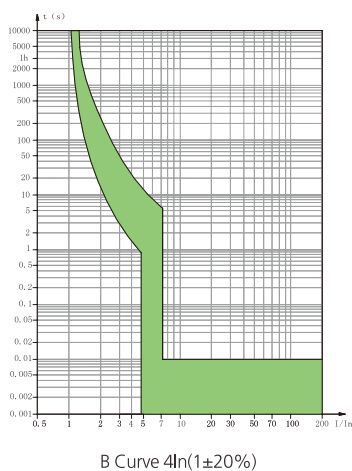
DC NO-POLARITY BREAKER

EDB1-63 series DC No-Polarity Miniature Circuit Breaker

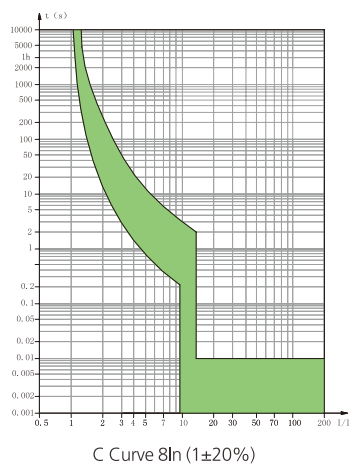
Contacts Configurations

Pole	1P	2P
Contacts Configurations		
	3P	4P

Tripping Characteristics



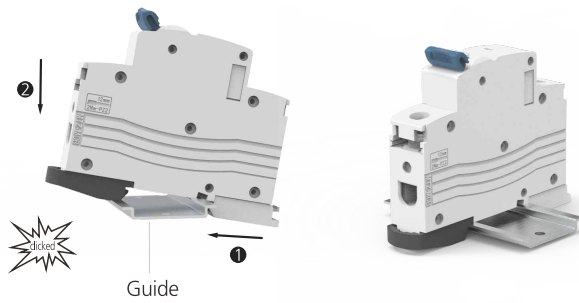
- $I_{nt} = 1.05I_n; t \leq 1h$
- $I_t = 1.3I_n; t < 1h$
- $2.55I_n; t = 1-60s (I_n \leq 32A)$
 $t = 1-120s (I_n > 32A)$
- Suitable for pure resistive load and microinductive circuit
- Available to rated current of 10A ~ 63A(63A Frame)
- Instantaneous tripping range: $4I_n \pm 20\%$



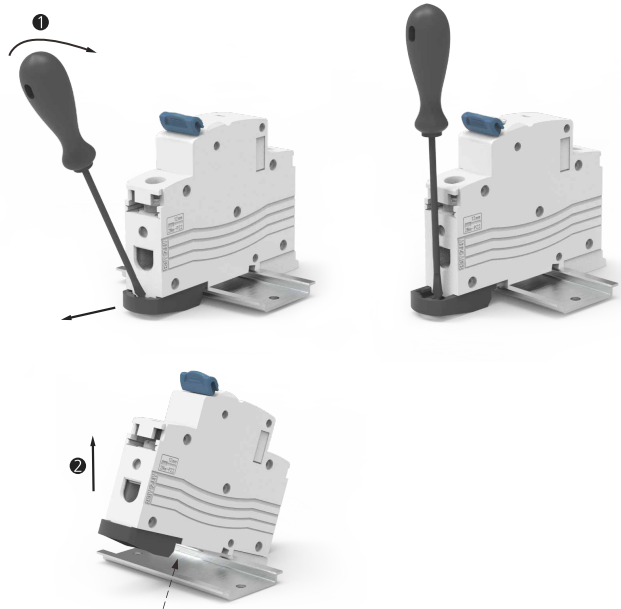
- $I_{nt} = 1.05I_n; t \leq 1h$
- $I_t = 1.3I_n; t < 1h$
- $2.55I_n; t = 1-60s (I_n \leq 32A)$
 $t = 1-120s (I_n > 32A)$
- Suitable for general load and power distribution circuit
- Available to rated current of 10A ~ 63A(63A Frame)
- Instantaneous tripping range: $8I_n \pm 20\%$

EDB1-63 series DC No-Polarity Miniature Circuit Breaker

Installation



Disassemble



Dimensions

