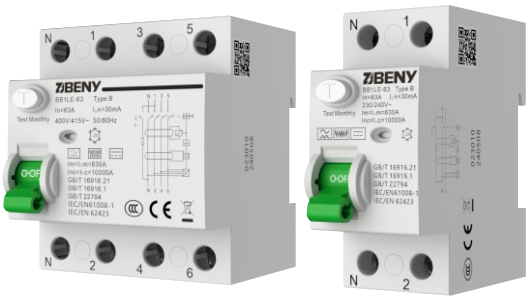
ZBENY

BB1LE-63 Series Type B of RCCB

GB/T 22794
GB/T 16916.1
GB/T 16916.21
IEC/EN 62423
IEC/EN 61008-1

1 Brand
2 Type
3 Rated Current
4 Rated Voltage
5 Breaking Capacity
6 short-circuit current
7 Indicator
8 Waveform
9 Wiring Diagram

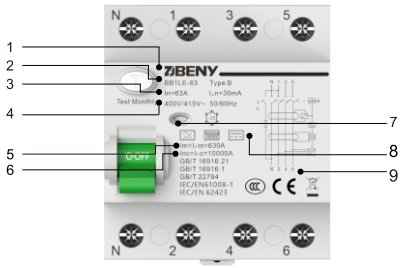
- With AC leakage, pulsating DC leakage, and smoothnessDC leakage protection and high-frequency leakage protection up to 1kHzProtective device - complete protection function
- Adopting frame type wiring structure - safe and reliable wiring
- Th35mm standard installation guide rail - simple and convenient installation
- Rated Current : 63A



Application

ZBENY The BB1LE-63 B leakage circuit breaker is suitable for industrial applications using frequency converters,photovoltaic power plants, electric vehicle chargers, and similar components. It has a rated voltage of 400/415V and a rated current of up to 63A circuit. It is used to detect pulsating DC leakage, smooth DC leakage,composite wave leakage, and high-frequency leakage up to 1kHz. When a person is electrocuted or the circuit is electrocuted or the circuit leakage exceeds the specified value, the residual current operates the circuit breaker to automatically cut off the faulty power supply in a very short time to protect the safety of the person and electrical equipment.

Appearance Introduction



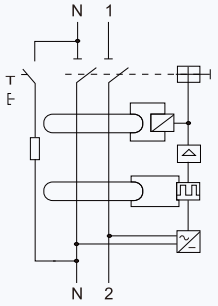
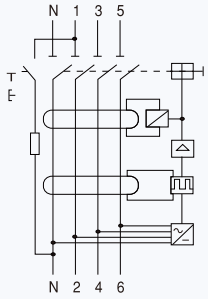
Type Instruction

BB1LE	-	63	-	3P+N	-	63A	-	400/415V	-	30mA
Product Code		Max Rated Current		Pole		Rated Current		Rated Voltage		Rated Sensitivity
Leakage current circuit breaker		63A		1P+N 3P+N		25A 40A 63A		230/240V AC 400/415V AC		30mA 100mA 300mA

Parameter

Electrical Characteristics			
Type(ware form of the earth leakage sensed)		Type-B	
Pole		1P+N	3P+N
Rated Working Voltage	Ue	230V AC	400/415V AC
Max Rated Current	Ith	63A	
Rated Current	In	25A、40A、63A	
Rated Insulated Voltage	Ui	500V AC	
Rated Impulsed Voltage	Uimp	6kV	
Rated Frequency		50/60Hz	
Rated Sensitivity	IΔn	30mA、100mA、300mA	
Rated residual making and breaking capacity	Im	500(In=25-40A) 630(In=63A)	
Short-circuit current	Inc=IΔC	10kA	
SCPD fuse		10000	
Break time under	IΔn	≤0.3s	
Dielectric Strength		2.5kV	
Pollution degree		3	
Service Life&Cycle Operation			
Mechenical		6000	
Electrical		2000	
Installation Environment			
Ingress Protection		IP20	
Terminal Cross Section		1~35mm²	
Product wiring torque M5		2N•m~2.5N•m	
Working Temperature(with daily average≤35℃)		-25℃~+70℃	
Storage Temperature		-40℃~+80℃	
Resistance to Humidityand Heat		II（Humidity 55℃, relative humidity 95%）	
Fixed installation		Fixed to the 35mm guide rail	

Wiring Diagram

Pole	Wiring Diagram
1P+N	
3P+N	

Connection

Installation and use			
Rated current In	25A	40A	63A
Coppr Wire mm²	4	10	16

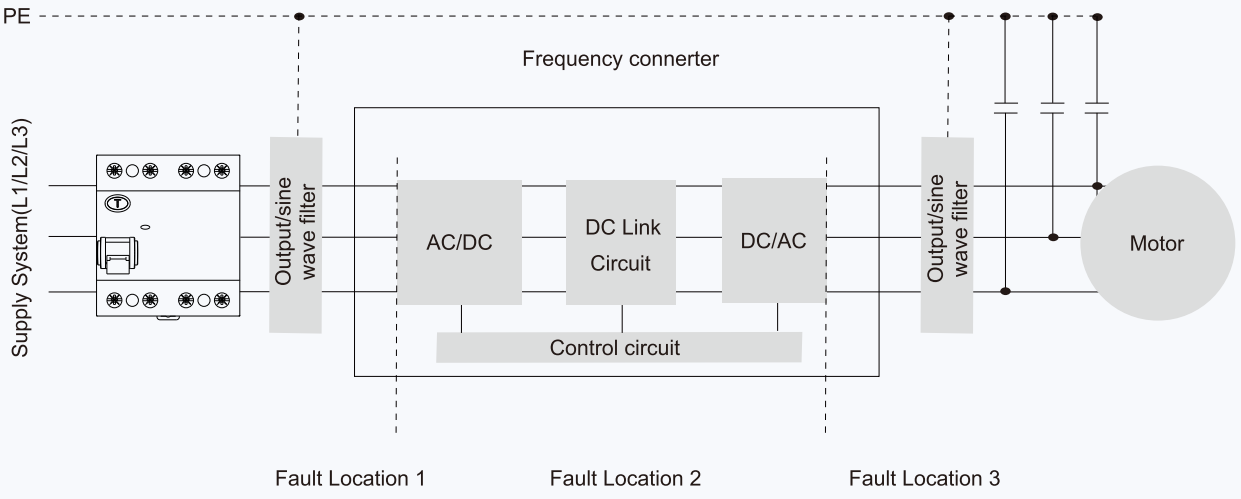
WARNING Verify that
all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightened to the manufacturers required torque before energization.

Detect the type and classification of residual current waveform

Definition of residual current waveform	Waveform	Leakage circuit breaker type			Tripping range	
		AC Type	A Type	B Type		
		~	⎓	⎓ ⎓ ⎍	Tripping current	Tripping time
Sinusoidal exchange	~	✓	✓	✓	0.5~1 I△n	1 I△n: t≤0.3s 2 I△n: t≤0.15s 5 I△n: t≤0.04s
Pulsating half wave	⎍	X	✓	✓	0.5~1.4 I△n	
Pulsating Half wave + diret current (6mA)	⎓	X	✓	✓	max1.4I△n	
Pulsating Half wave + diret current (10mA)	⎓	X	X	✓	max1.4I△n	
High frequency (up to 1KHz)	⎍	X	X	✓	150Hz,0.5~2.4 I△n	
		X	X	✓	400Hz,0.5~6 I△n	
		X	X	✓	1000Hz,1~14 I△n	
Two phase rectified full wave	⎓	X	X	✓	0.5~2 I△n	2 I△n: t≤0.3s 4 I△n: t≤0.15s 10 I△n: t≤0.04s
Three phase rectified full wave	⎓			✓	0.5~2 I△n	
Direct current	⎓				0.5~2 I△n	

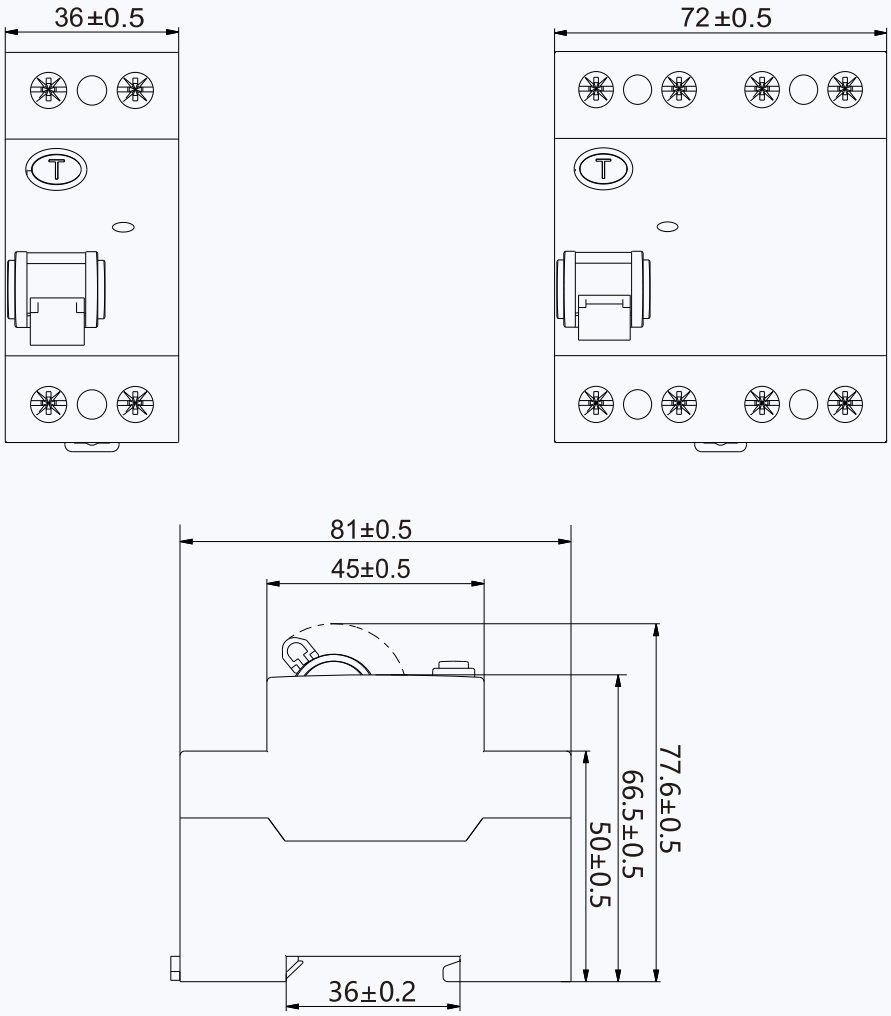
protection of persons againat electric shock by direct contact(30mA)
protection of persons againat electric shock by indirect contact(≥300mA)
protection of installations against the risk of fire(300mA or 500mA)

Typical application



Attention: leakage circuit breakers cannot be used in DC power systems

Dimensions(mm)



Derating Date

Derating Temperature				
Tem / Proprotion / Type	-25℃~40℃	50°C	60°C	70°C
BB1LE-63	100%	95%	90%	85%

Altitude of Derating				
Altitude	2000m	3000m	4000m	5000m
Power frequency withstand voltage	100%	100%	100%	100%
Ui	100%	100%	100%	100%
In	100%	100%	90%	80%
Ue	N/A			