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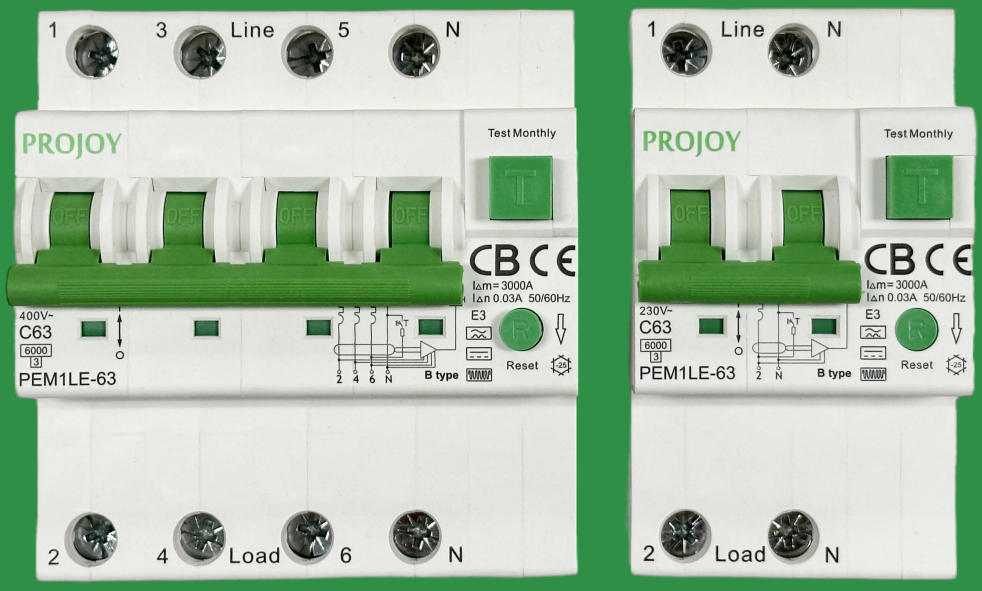
electric
– Switch To Safety! –



PEM1LE-63

B Type RCBO
Electronic

V1.0 20250424

PEM1LE-63 B Type RCBO Series

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PEM1LE-63 B Type RCBO series is a Residual Current Operated Circuit Breaker with Type B residual current operating characteristics, and its main applications are as follows:

Personal safety protection: It can provide protection against personal electric shock. When someone gets an electric shock, it can quickly detect the residual current and cut off the circuit in an extremely short time, thus preventing the human body from continuous electric shock damage and greatly reducing the risk of casualties caused by electric shock accidents.

Equipment leakage protection: It can be used to detect and prevent leakage faults of electrical equipment caused by reasons such as insulation damage. Once a leakage occurs in the equipment, it will cut off the power supply in a timely manner to prevent further damage to the equipment. At the same time, it can also avoid safety accidents such as electrical fires caused by leakage.

Overload and short - circuit protection: In addition to the residual current protection function, Type B RCBO usually also has overload and short - circuit protection functions.

2 Product naming rules

PEM1	LE	63	63A	1P+N	C	6/10kA	B	30mA
Projoy Electric Miniature Circuit Breaker	Electronic leakage circuit breaker	Frame current	Rated current In (A) 6 A, 10A 16A, 20A 25A, 32A 40A, 50A 63A	Poles 1P+N 3P+N	Thermo-magnetic release characteristic B,C,D	Rated breaking capacity Icn	Type (wave form of the earth leakage sensed) B	Rated sensitivity I△n 30mA,100mA, 300mA

3 Specifications

3.1 Basic Data

Product Name		PEM1LE-63
Standard		IEC/EN 61009-1，IEC/EN 62423
Electrical Features		
Number of poles		1P+N、3P+N (N can be switched on and off)
Rated frequency(Hz)		50/60
Frame rating current (A)	Inm	63
Rated current(A)		6、10、16、20、25、32、40、50、63
Rated voltage(V)		1P+N:AC230/240V,3P+N:AC400/415V
Rated insulation voltage (V)	Ui	500
Rated impulse withstand voltage (kV)	Uimp	4
Rated operating short-circuit breaking capacity (kA)	Ics	6/7.5kA
Rated short circuit capacity (kA)	Icn	6/10kA
Rated residual making and breaking capacity (A) (I△m)		3000
Max. breaking time at rated residual current		0.1s
Instantaneous tripping feature		B(3In~5In) C(5In~10In) D(10In~20In)
Type of trip		Groud fault: Electronic; Overload and short circuit :Thermal-magnetic
Pollution level		2

Continue the above table

Electrical and mechanical accessories	MX: Shunt release SD: Alarm contact OF: Auxiliary contact MV: Over-voltage release MN: Under-voltage release
Rated residual operating current (mA) (I△n)	30、100、300
Mechanical Features	
Electrical life	4000
Mechanical life	10000
Protection level	IP20
Normal operating conditions and installation	
Ambient temperature	-25℃~+55℃, Max.95% humidity
Installation altitude	Not more than 2,000m
Terminal connection type	Screw crimp
Max. wiring capacity	25
Max. Ultimate torque	2.5
Installation Type	II、III Type
Installation method	TH35-7.5 standard slide rail
Incoming line method	Upline

3.2 Application scenarios

Which are vulnerable to smooth DC residual currents:

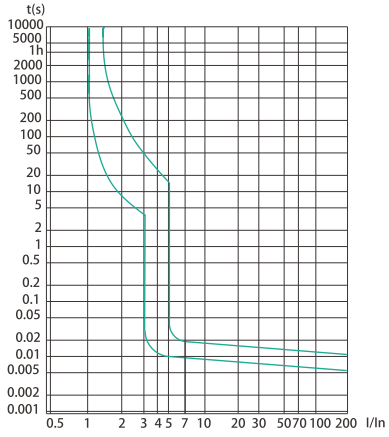
- Photovoltaic systems, Ac side
- Charging stations for electric vehicles
- Data centers
- Medical facilities
- Industrial field
- Complex electrical systems in commercial buildings
- Test set-ups in laboratories

3.3 Advantage

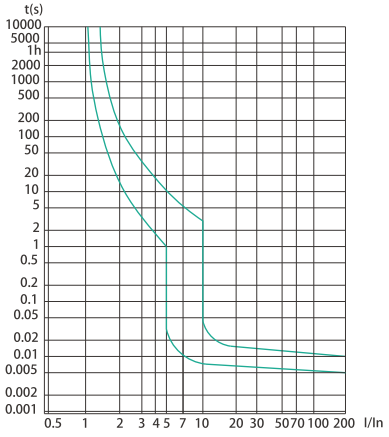
- High breaking capacity, which can reach up to 10kA
- Long electrical life, which can be as high as 4,000 cycles
- Complete protection functions: B-type leakage protection, overload protection, and short circuit protection
- Complete certifications, including CB, CE and RoHS, etc
- On - off indication window for users to quickly judge the working state

PEM1LE-63 B Type RCBO Series

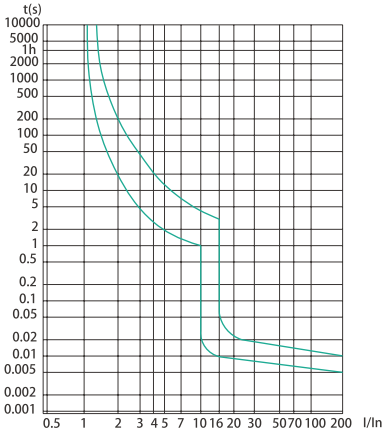
3.4 Protection curve of the circuit breaker



Type B protection curve



Type C protection curve



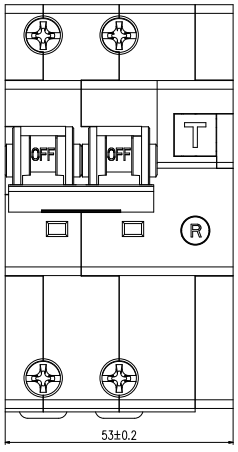
Type D protection curve

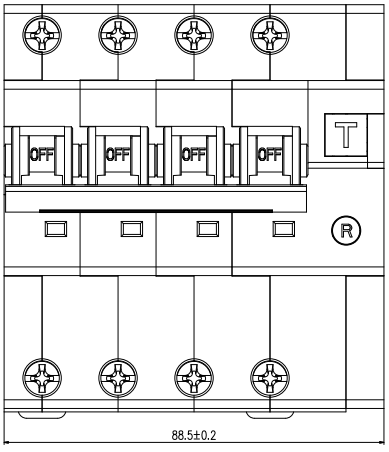
3.5 Wiring: It is suitable for wire connection of 25mm² or smaller (see Table 3). Use screws to tighten the wiring and the torque is 2.5N•m.

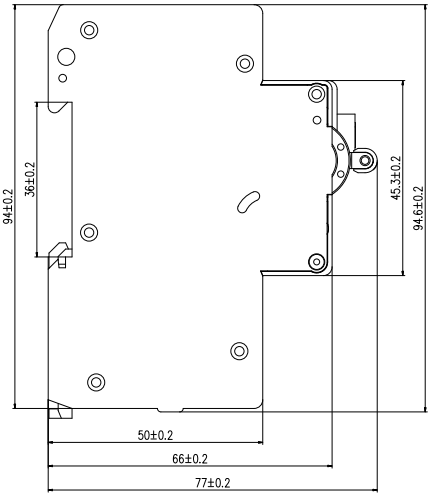
Table 3

Product Name	PEM1LE-63
1~6	1
10	1.5
16~20	2.5
25	4
32	6
40~50	10
63	16

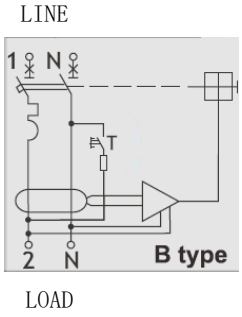
4 Product appearance and installation dimensions

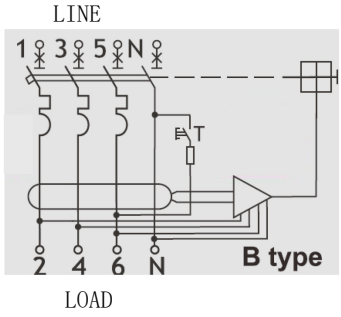






5 Diagram





Attention: The power supply must be connected to the LINE terminal. Connecting the power supply to the LOAD terminal is prohibited.

PROJOY electric
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