

# DC Miniature Circuit Breaker

PEBS-H-63 Series



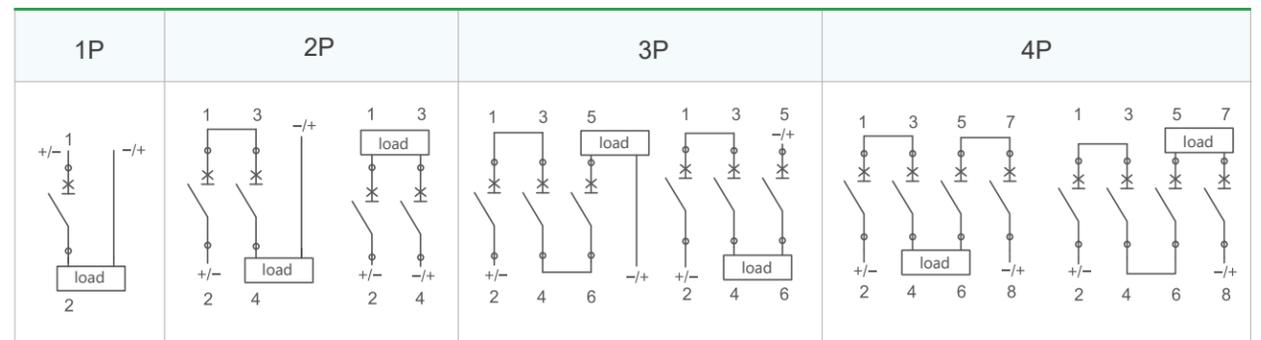
**PROJOY**  
electric  
- Switch To Safety! -

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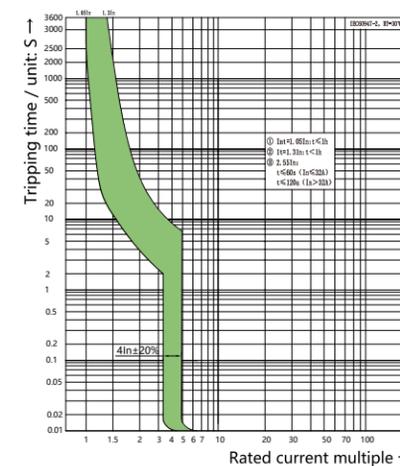
## Select Code

PEBS	H	F	C	P	V	T	W	A
Projoy Energy BatteryBreaker	Catalog	Frame current(A)	Rated Current(A)	Poles	Rated Voltage(V)	Tripping Character	width /1poles	Attachment
	H (High Voltage)	63	10,16,20 25,32,40 50,63	1 2 3 4	250 500 750 1000	B C	18mm	MX:MX+OF integrated MX:Voltage DC 12-24V or 48-60V MX:Voltage DC 12-24V or 48-60V OF:A pair of auxiliary contacts

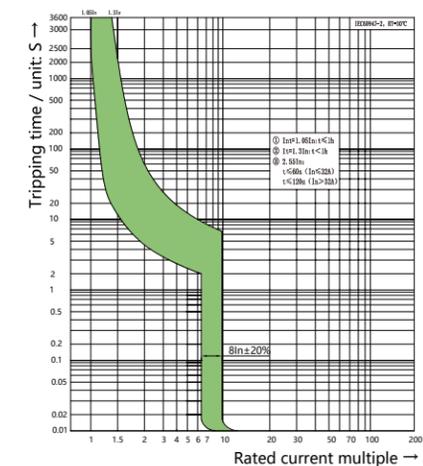
## Contact Configuration



## Tripping Characteristics



B Curve 4In±20%  
Applicable rated current ≤63A



C Curve 8In±20%  
Applicable rated current ≤63A

## HIGH CRAFTSMANSHIP AND HIGH STANDARDS

- Small Volume
- Short circuit Protection
- Overload Protection
- Flame Retardant
- High Breaking Capability
- Arcing Short
- Complete Accessories
- Multiple Wiring

## Technical data

### According to EN60947-2, AS/NZS IEC 60947.2

Pole	1P	2P	3P	4P
Rated Working Voltage Ue	250 V DC	500 V DC	750 V DC	1000 V DC
Frame Current	63A			
Rated Current In	63A, 50A, 40A, 32A, 25A, 20A, 16A, 10A			
Rated Insulation Voltage Ui	1200V			
Rated Impulse Withstand Voltage Uimp	6kV			
Tripping Characteristics	B/C			
Tripping Type	Thermal Magnetic			
Rated Ultimate Short-Circuit Breaking Capacity Icu	6kA			
Rated Service Short-Circuit Interrupting Capacity Ics	6kA			
Electrical Life	Actual	exceed 300 Cycles		
	Standard	300 Cycles		
Mechanical Life	Actual	exceed 20000 Cycles		
	Standard	20000 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	2.5~35mm <sup>2</sup>			
Fastening Torque of Terminals	2.0N.m~2.5N.m			
Ambient Temperature	-30°C~70°C			
Storage Temperature	-40°C~85°C			
Installation Method	DIN35mm			
Elevation	≤2000m			
Dimension	length: 81mm			
	Width: 72mm (4P), 54mm (3P), 36mm (2P), 18mm (1P)			
Weight	High: 87.5mm			
	0.12kg/Pole			

## Reduction coefficient

### temperature reduction coefficient

Temperature	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C	20°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C
The rated work current coefficient	1.242	1.223	1.204	1.182	1.161	1.143	1.127	1.103	1.079	1.063	1.047	1	0.984	0.968	0.952	0.922	0.904	0.891	0.872	0.844

### Altitude reduction coefficient

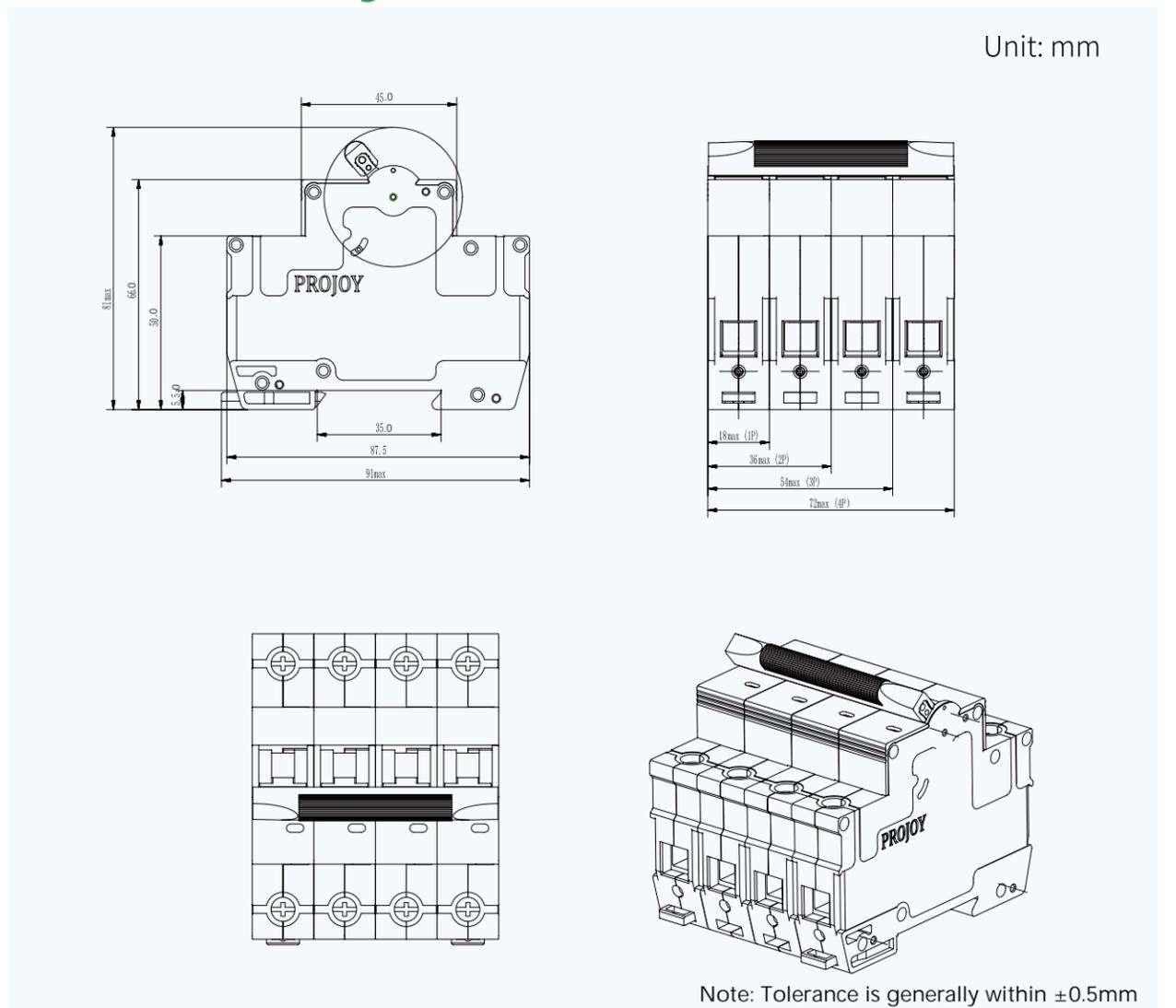
Altitude m	2000	3000	4000	5000
The rated working current coefficient	1	0.96	0.91	0.86
The rated work voltage coefficient	1	1	1	1
Rated industrial frequency resistance coefficient	1	0.9	0.82	0.71
The rated impact tolerance voltage coefficient	1	0.9	0.82	0.71
The rated ultimate short-circuit capacity and electronic life coefficient	1	0.82	0.7	0.6

## Technical data

### Harness specification selection

Current specification(A)	Copper wire specification (AWG)	Traverse area(mm <sup>2</sup> )	Wiring torque(N.m)
10	16	1.5	2.0~2.5
16	12	2.5	
20	12	2.5	
25	10	4.0	
32	8	10	
40	10	10	
50	8	16	
63	6	16	

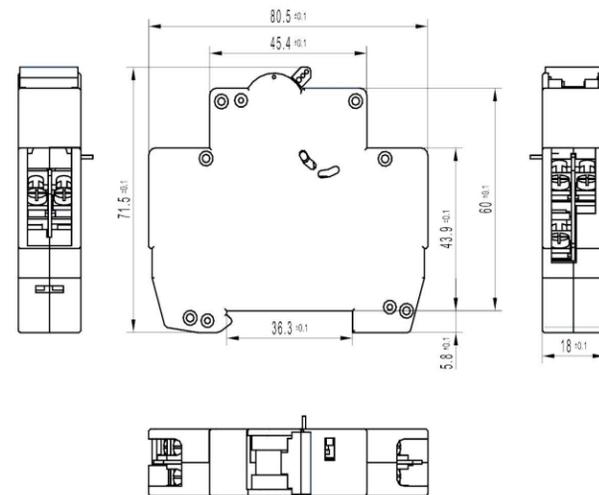
## Dimensional drawing



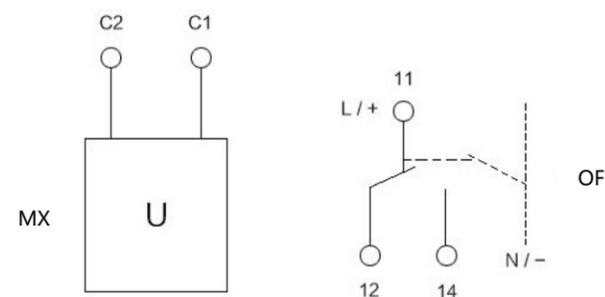
## Technical data

Shunt trip release ,MX + Auxiliary contact, OF (Passive)			
Rated insulation voltage	415V		
Rated control voltage	DC: 12-24V	DC: 48-60V	NOTE: Other voltages indicate when placing an order
Minimum trip current	0.5 A	1.0 A	
Pull-in voltage	(0.7~1.1) Us		
MAX trip time	<20ms		
auxiliary contact	3A 240V/415VAC		
Wiring torque	0.3~0.8 N.m		
Wiring capacity	1~2.5mm <sup>2</sup>		

Accessory size



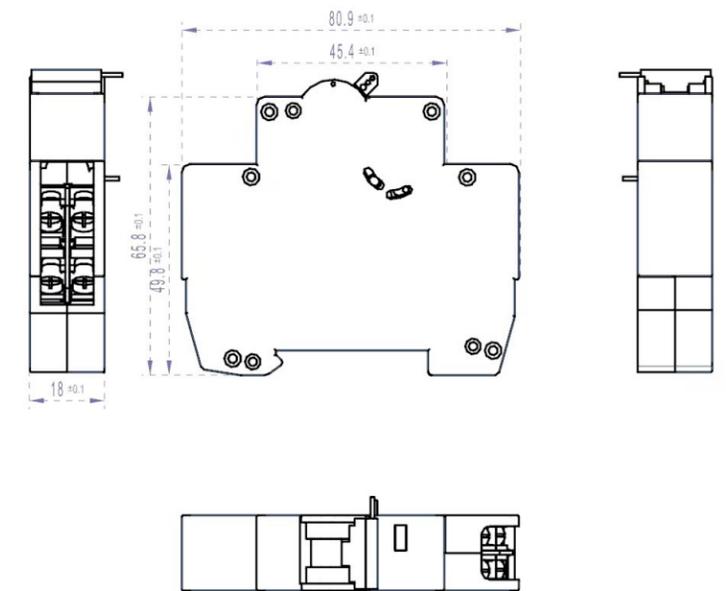
Wiring principle



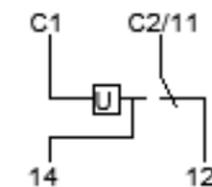
## Technical data

Shunt trip release ,MX + Auxiliary contact, OF (active)			
Rated insulation voltage	415V		
Rated control voltage	DC: 12-24V	DC: 48-60V	NOTE: Other voltages indicate when placing an order
Minimum trip current	0.5 A	1.0 A	
MAX trip time	<20ms		
Pull-in voltage	(0.7~1.1) Us		
auxiliary contact	3A 240V/415VAC		
Wiring torque	0.3~0.8 N.m		
Wiring capacity	1~2.5mm <sup>2</sup>		

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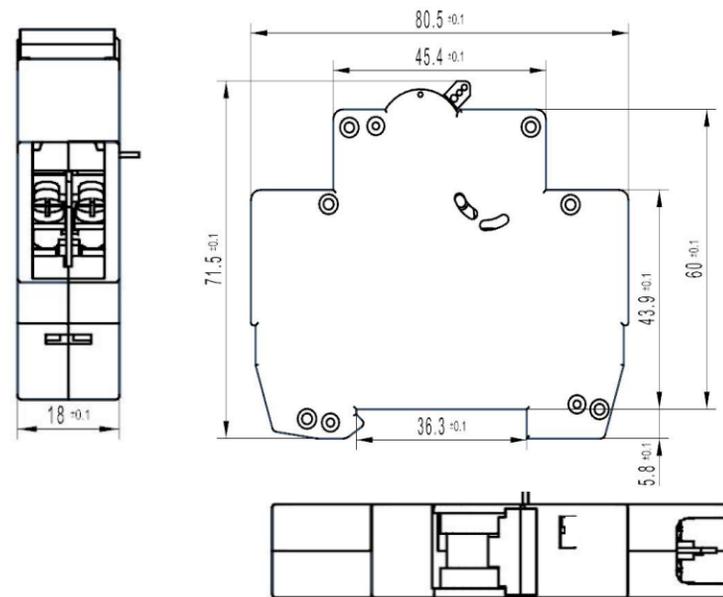
Wiring principle



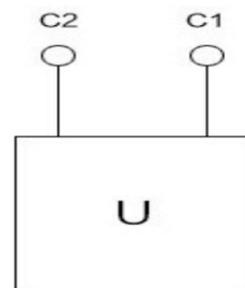
## Technical data

PEBS-H MX			
Rated insulation voltage	415V		
Rated control voltage	DC: 12-24V	DC: 48-60V	NOTE: Other voltages indicate when placing an order
Minimum trip current	0.5 A	1.0 A	
MAX trip time	<20ms		
Pull-in voltage	(0.7~1.1) Us		
Wiring torque	0.3~0.8 N.m		
Wiring capacity	1~2.5mm <sup>2</sup>		

Accessory size



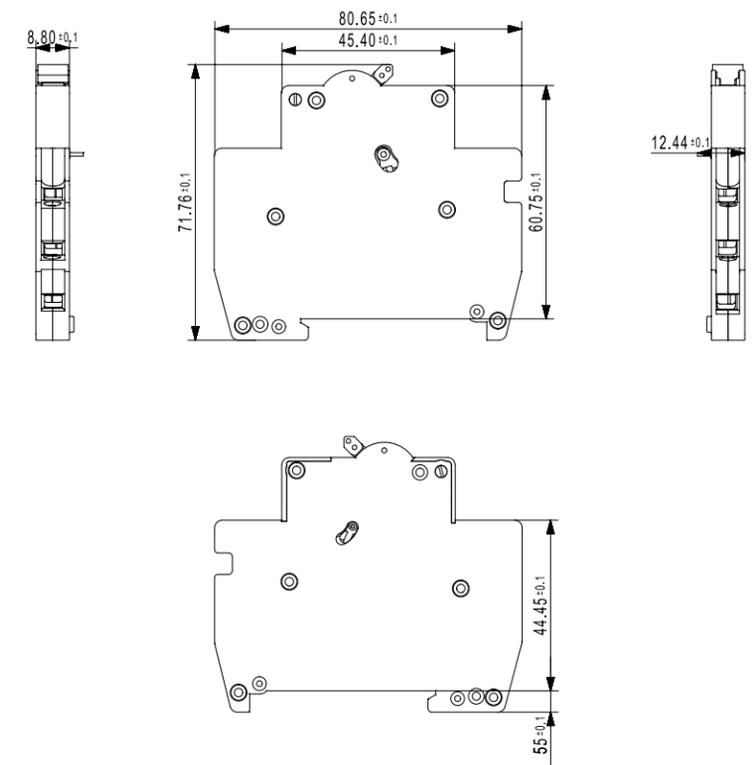
Wiring principle



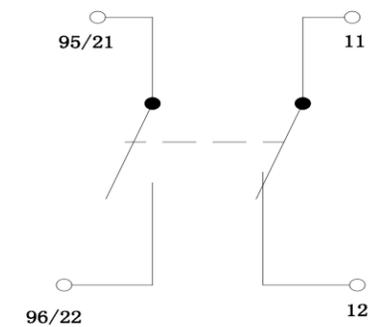
## Technical data

PEBS-H OF		
working voltage	Rated current ( A)	Use classes
AC 240V/415V	6A/3A	AC12
DC24V/DC48V/DC110-220V/DC250V	6A/2A/1A/0.4A	DC12

Accessory size



Wiring principle



## Package Information

Current	Pole	Box	Carton	Pallet	Products should be stored in the warehouse where there is ventilation. The relative humidity there should not exceed 80%, and the ambient temperature there is between -40°C to + 85°C. In addition, there should not be acidic, alkaline and corrosive gas in the air.
63A/10A	1P	12	8	80	
	2P	6	8	80	
	3P	4	8	80	
	4P	3	8	80	



**PROJOY**  
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— *Switch To Safety!* —

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