

DC Miniature Circuit Breaker

PEBS-S series
(Battery switch)



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HIGH CRAFTSMANSHIP AND HIGH STANDARDS



Small Volume



Short circuit Protection



Overload Protection



Flame Retardant



High Breaking Capability



Arcing Short



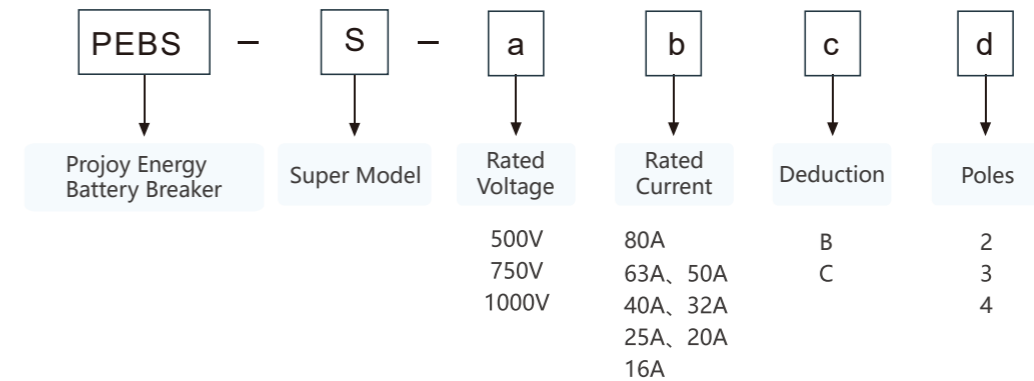
Complete Accessories



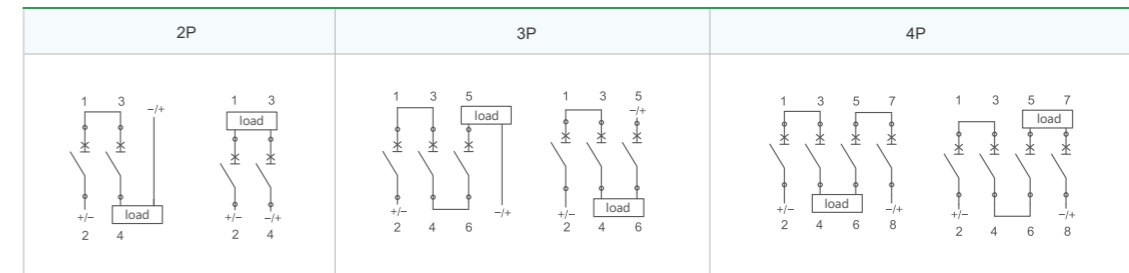
Multiple Wiring



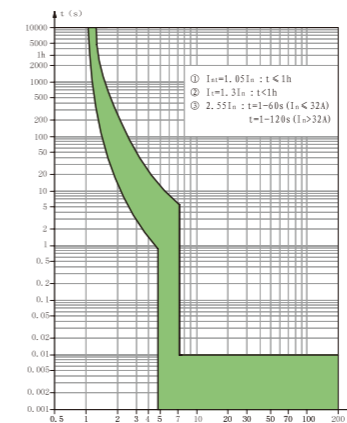
Select Code



Contact Configuration

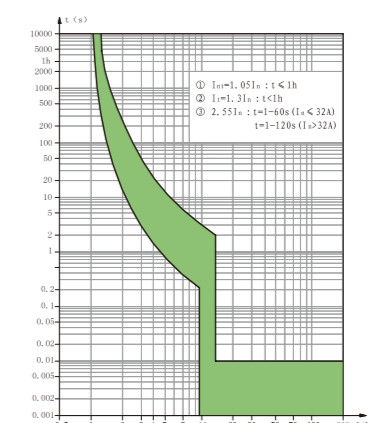


Tripping Characteristics



B Curve $4I_n (1 \pm 20\%)$

- Suitable for pure resistive load and microinductive circuit
- Available to rated current of 10A ~ 80A(80A Frame)
- Instantaneous tripping range: $4I_n \pm 20\%$



C Curve $8I_n (1 \pm 20\%)$

- Suitable for general load and power distribution circuit
- Available to rated current of 10A ~ 80A(80A Frame)
- Instantaneous tripping range: $8I_n \pm 20\%$

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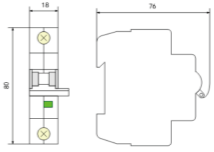
Technical data

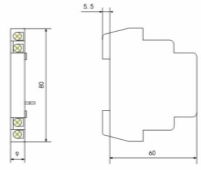
According to UL489, CSA C22.2, NO. 5	
Pole	2P 3P 4P
Rated Working Voltage U _e	500 V DC 750 V DC 1000 V DC
Frame Current	80A
Rated Current I _n	80A, 63A, 50A, 40A, 32A, 25A, 20A, 16A
Rated Insulation Voltage U _i	1000V
Rated Impulse Withstand Voltage U _{imp}	6kV
Tripping Characteristics	B/C
Tripping Type	Thermal Magnetic
Rated Ultimate Short-Circuit Breaking Capacity I _{cu}	10kA
Rated Service Short-Circuit Interrupting Capacity I _{cs}	6kA
Electrical Life	Actual > 1500 Cycles
	Standard 1000 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 %
Wiring capacity	14 ~ 2 AWG
Wiring knob	3.5 Nm
Ambient Temperature	-30°C~70°C
Storage Temperature	-40°C~85°C
Installation Method	DIN
Elevation	≤2000m
Dimension	Width:72mm (4P); 54mm (3P) ; 36mm (2P)
	High: 108mm
	Depth: 76mm
Weight	0.12kg/Pole

Package Information					Storage
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.
80A/32A	2P	6	8	80	
	3P	4	8	80	
	4P	3	8	80	

Reduction Coefficient Of Plateau Area				
Altitude (m)	2000	3000	4000	5000
Rated Current (In)	1	0.97	0.91	0.86
Rated Insulation (Ui)	1	0.90	0.82	0.76
Power-Frequency Dielectric Strength	1	0.90	0.82	0.76
Rated Impact Tolerance Voltage (Uimp)	1	0.90	0.82	0.76
Values Of Rated Shour-Circuit Capacity (Icn)	1	0.87	0.77	0.67
Electrical Life (Cycles)	1	0.87	0.77	0.67

Technical data

Shunt trip release ,MX	
Rated insulation voltage	250V
Rated control voltage U _s	DC: 12 ~ 24V
	DC: 24 ~ 48V
The maximum deduction time of MX	<10ms
Power access terminal of MX	Upper terminal or lower terminal (Nonpolarity)
Mechanical life	10000 times
Electrical life	4000 times
Torque	2Nm
Range of working temperature	-30 °C ~ +70 °C
Environmental conditions	There should be no medium that causes the danger of explosion, nor does it have no harmful gases and electric conductivity dust that corrodes and damage insulation.
Installation conditions	DIN 35mm
Applicable circuit breaker model	PEBS-S
Assembly position	Left side of the circuit breaker
Dimensions	

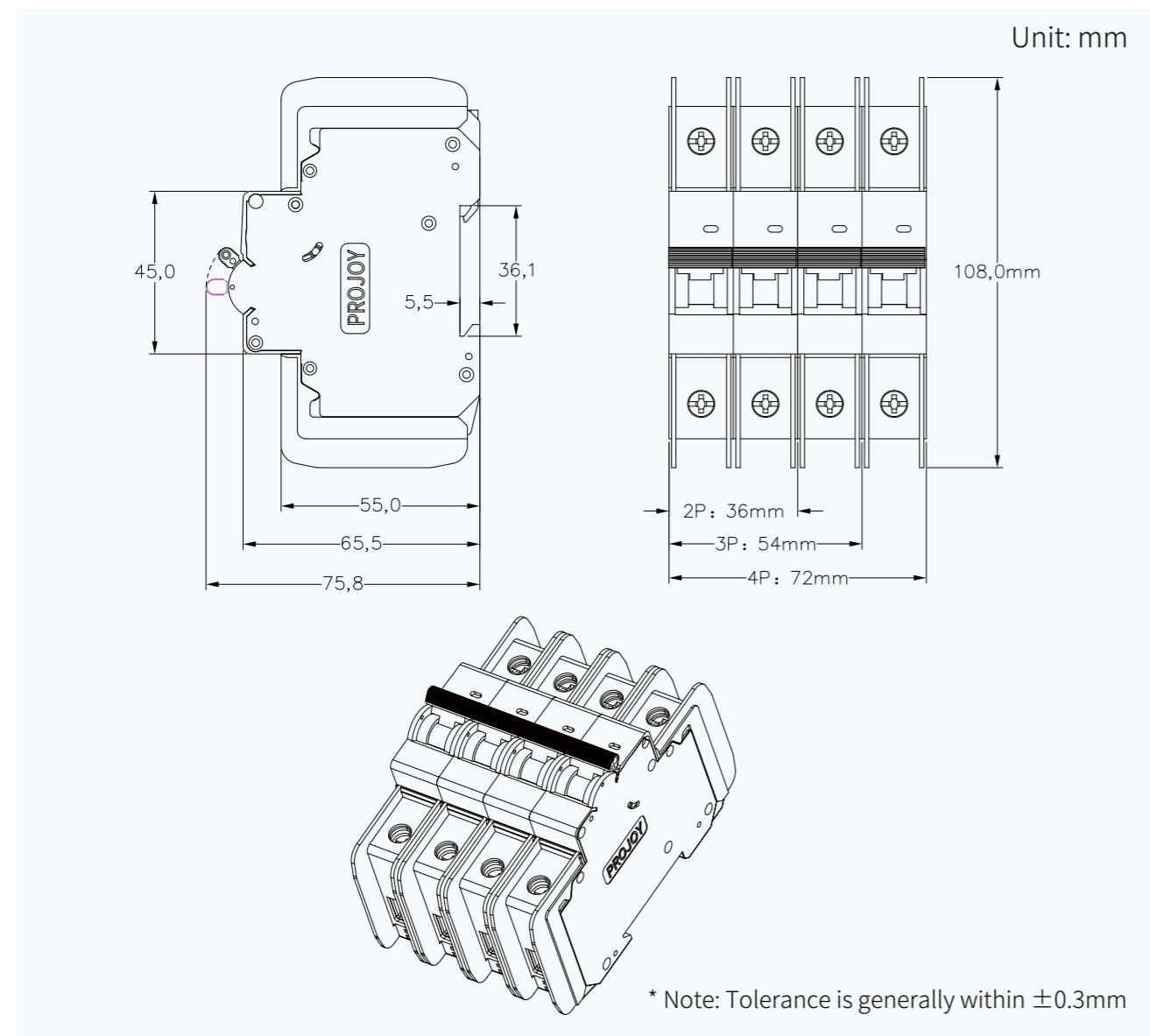
Auxiliary contact, OF	
Rated insulation voltage	250V
Auxiliary contact's capacity	3A: AC400V
	1A: DC110V
The minimum operating voltage of the auxiliary contact	5V
Agreed heating current of auxiliary contact	4A
Terminals for auxiliary contact	11, 12 terminals: NC; ,21,22terminals: NO
Mechanical life	10000 times
Electrical life	4000 times
Wiring ability	1 ~ 2.5mm ²
Torque	0.3 ~ 0.5Nm
Range of working temperature	-30 °C ~ +70 °C
Environmental conditions	There should be no medium that causes the danger of explosion, nor does it have no harmful gases and electric conductivity dust that corrodes and damage insulation.
Installation conditions	DIN 35mm
Applicable circuit breaker model	PEBS-S
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Technical data

Temperature reduction coefficient

	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
16A	1.24	1.22	1.20	1.18	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0.87	0.84	0.81
20A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0.87	0.84	0.81
25A	1.24	1.22	1.20	1.18	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0.87	0.85	0.82
32A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.04	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.78
40A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.82
50A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.82
63A	1.27	1.25	1.22	1.20	1.18	1.15	1.13	1.11	1.08	1.05	0.87	1.00	1.00	1.00	1.00	0.88	0.85	0.82	0.78
80A	1.27	1.25	1.22	1.20	1.18	1.15	1.13	1.11	1.08	1.05	0.87	1.00	1.00	1.00	1.00	0.88	0.85	0.82	0.78

Dimensions



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