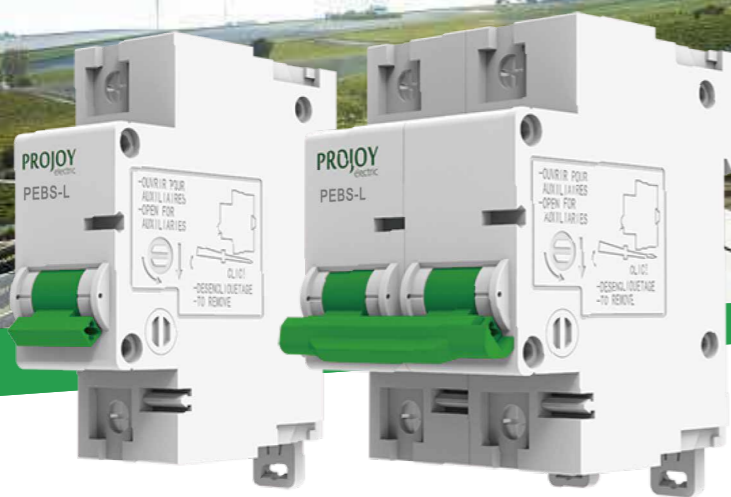


DC Miniature Circuit Breaker

PEBS-H-125 Series



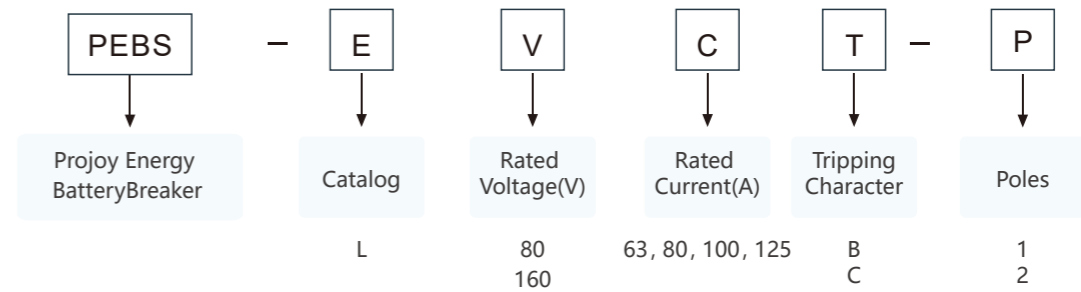
PROJOY
electric
- Switch To Safety! -



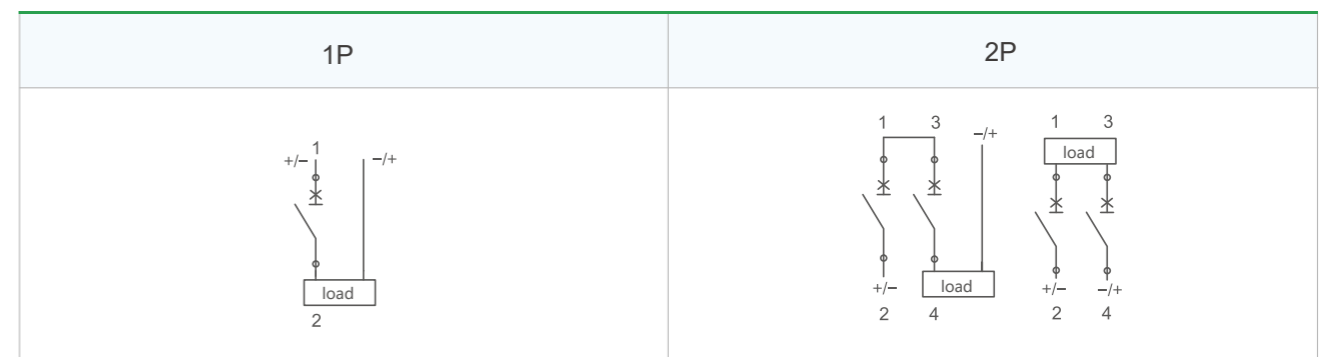
HIGH CRAFTSMANSHIP AND HIGH STANDARDS

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

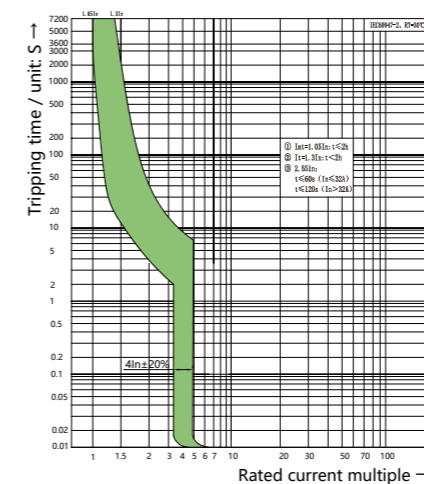
Select Code



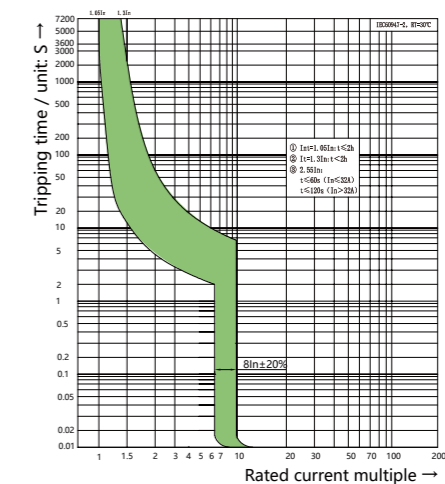
Contact Configuration



Tripping Characteristics



B Curve 4In±20%
Applicable rated current 80A-125A



C Curve 8In±20%
Applicable rated current 80A-125A

Technical data

PEBS-L-125

According to EN60947-2, AS/NZS IEC 60947.2:		
Pole	1P	2P
Rated Working Voltage Ue	80 V DC	160 V DC
Frame Current	125A	
Rated Current In	63A, 80A, 100A, 125A	
Rated Insulation Voltage Ui	500V	
Rated Impulse Withstand Voltage Uimp	6kV	
Tripping Characteristics	B/C	
Tripping Type	Thermal Magnetic	
Rated Ultimate Short-Circuit Breaking Capacity Icu	10kA	
Rated Service Short-Circuit Interrupting Capacity Ics	7.5kA	
Electrical Life	Actual	Average 1000 Cycles
	Standard	200 Cycles
Mechanical Life	Actual	> 10000 Cycles
	Standard	9700 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 ²	
Fastening Torque of Terminals	3.5 Nm	
Ambient Temperature	-30°C~70°C	
Storage Temperature	-40°C~85°C	
Installation Method	DIN35mm	
Elevation	≤2000m	
	length: 86mm	
	Width: 27mm (1P), 54mm (2P)	
Dimension	High: 76.5mm	
	Weight	
0.17kg/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.
125A	1P	10	8	60	
	2P	5	8	60	

Order Choosing Specification					
Client Information:			Note: One pole for 80V, 2 poles for 80V or 160.		
Rated Current (A)	Trip Type	Voltage	No. of Pole	Quantity	Delivery Date
125A Frame <input type="checkbox"/> 125 <input type="checkbox"/> 100 <input type="checkbox"/> 80 <input type="checkbox"/> 63	<input type="checkbox"/> B <input type="checkbox"/> C	<input type="checkbox"/> 80 <input type="checkbox"/> 160	<input type="checkbox"/> 1 <input type="checkbox"/> 2		
125A Frame <input type="checkbox"/> 125 <input type="checkbox"/> 100 <input type="checkbox"/> 80 <input type="checkbox"/> 63	<input type="checkbox"/> B <input type="checkbox"/> C	<input type="checkbox"/> 80 <input type="checkbox"/> 160	<input type="checkbox"/> 1 <input type="checkbox"/> 2		

Accessories

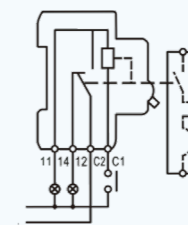
Technical parameter of shunt trip release, MX

Working voltage US	DC: 24 ~ 48V
Maximum deduction time	< 10ms
Coil resistance	1.8Ω
Mechanical life	10000 times
Electrical life	4000 times
Torque	0.3 ~ 0.8Nm
Wiring ability	1 ~ 2.5mm ² (hard line), 1 ~ 2.5mm ² (soft line, with hoop line terminal)
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.
Assembly position	Right side of the circuit breaker
Installation conditions	DIN35mm

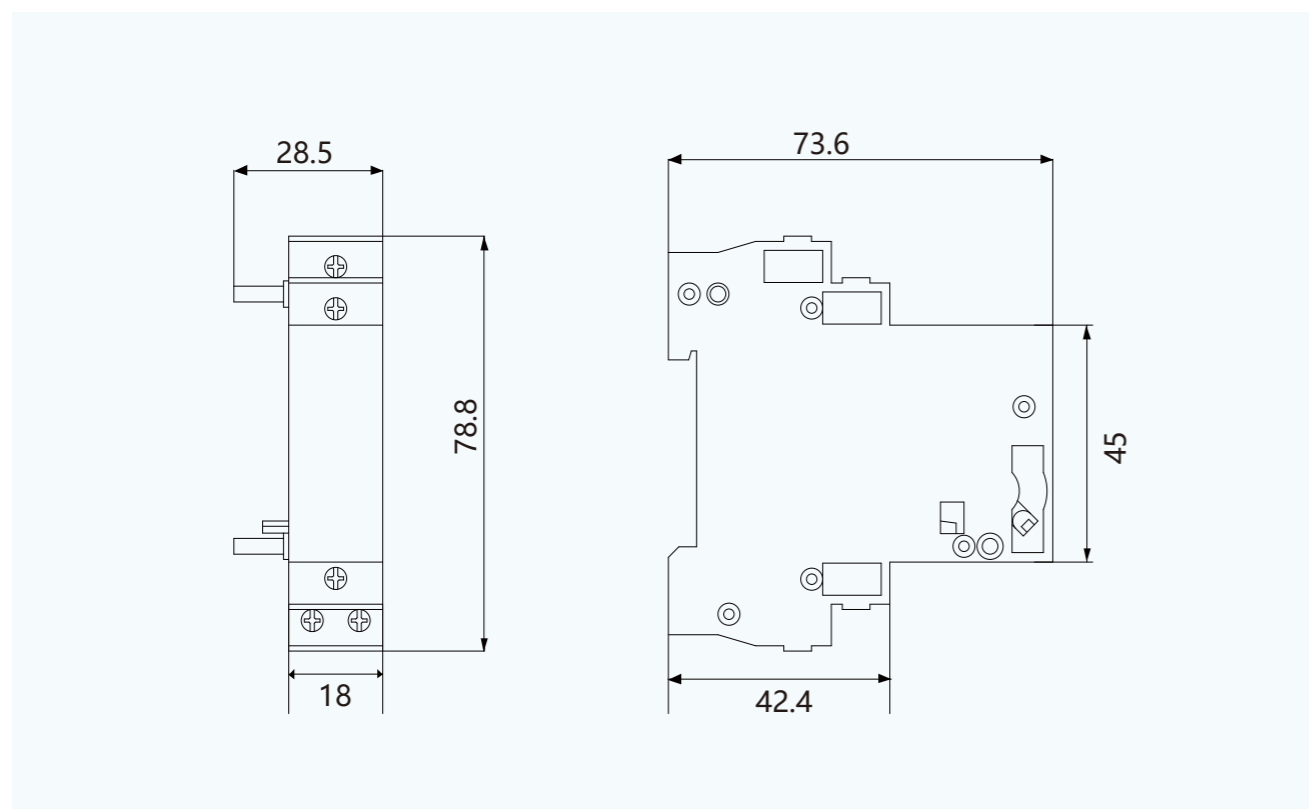
Technical parameters auxiliary contact, OF

Contact capacity of OF	AC13: Ie=3A; Ue=250V AC15: Ie=2A; Ue=250V DC12: Ie=0.5A; Ue=110V
Minimum operating voltage	5V
Minimum operating current	10mA
Rated insulation voltage	415V
Rating restricted short -circuit current Ik	1000A
Conventional thermal current Ith	4A
Mechanical life	10000 times
Electrical life	4000 times
Torque	0.3 ~ 0.8Nm
Wiring ability	1 × 1.0 ~ 1 × 2.5mm ²
Number of contacts	1 NO contact, 1 NC contact
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.
Assembly position	Right side of the circuit breaker
Installation conditions	DIN35mm

Wiring diagrams



Dimensions of MX+OF



Reduction coefficient

Temperature reduction coefficient

Temperature	-30℃	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	5℃	10℃	15℃	20℃	30℃	35℃	40℃	45℃	50℃	55℃	60℃	65℃	70℃
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

MCB Side-by-side installation reduction coefficient

Number of MCBs	1	2~3	4~5	6~8	9~10
In≤25A coefficient	1	0.96	0.9	0.8	0.7
32A≤In≤63A coefficient	1	0.92	0.8	0.7	0.6
80A≤In≤125A coefficient	1	0.9	0.8	0.7	/

Dimensions

