DC Miniature Circuit Breaker

PEBS-H-63 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

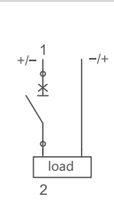
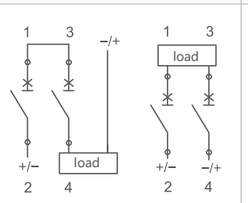
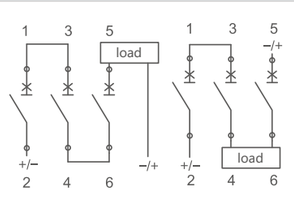
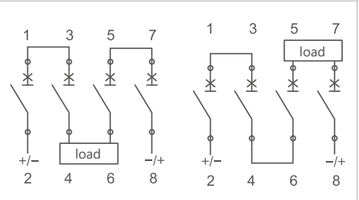
PROJOY electric

– Switch To Safety! –

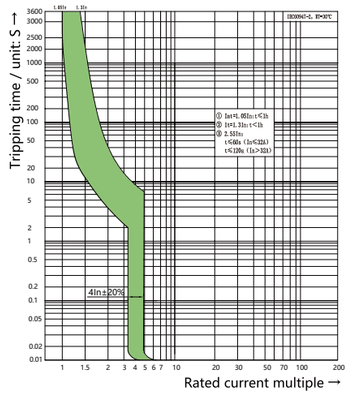
Select Code

PEBS	–	E	V	C	T	–	P
Projoy Energy BatteryBreaker		Catalog	Rated Voltage(V)	Rated Current(A)	Tripping Character		Poles
		H	200 500 750 1000	10,16,20 25,32,40 50,63	B C		1 2 3 4

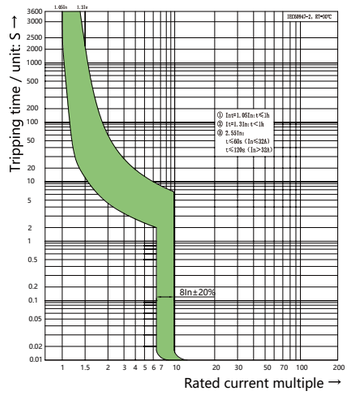
Contact Configuration

1P	2P	3P	4P
			

Tripping Characteristics



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



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

PROJOY electric

– Switch To Safety! –

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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		1000V			
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	Average 1000 Cycles			
	Standard	300 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		2.5~35mm²			
Fastening Torque of Terminals		2.0Nm			
Ambient Temperature		-30℃~70℃			
Storage Temperature		-40℃~85℃			
Installation Method		DIN35mm			
Elevation		≤2000m			
Dimension		length: 81mm			
		Width: 72mm (4P), 54mm (3P), 36mm (2P), 18mm (1P)			
		High: 87.5mm			
Weight		0.12kg/Pole			

Package Information

Current	Pole	Box	Carton	Pallet
63A	1P	12	8	80
	2P	6	8	80
	3P	4	8	80
	4P	3	8	80

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℃ to + 85℃.
In addition, there should not be acidic, alkaline and corrosive gas in the air.

Order Choosing Specification

Client Information:

Rated Current (A)								Trip Type		No. of Pole				Quantity	Delivery Date
☐ 63	☐ 50	☐ 40	☐ 32	☐ 25	☐ 20	☐ 16	☐ 10	☐ B	☐ C	☐ 1	☐ 2	☐ 3	☐ 4		
☐ 63	☐ 50	☐ 40	☐ 32	☐ 25	☐ 20	☐ 16	☐ 10	☐ B	☐ C	☐ 1	☐ 2	☐ 3	☐ 4		
☐ 63	☐ 50	☐ 40	☐ 32	☐ 25	☐ 20	☐ 16	☐ 10	☐ B	☐ C	☐ 1	☐ 2	☐ 3	☐ 4		
☐ 63	☐ 50	☐ 40	☐ 32	☐ 25	☐ 20	☐ 16	☐ 10	☐ B	☐ C	☐ 1	☐ 2	☐ 3	☐ 4		

Accessories

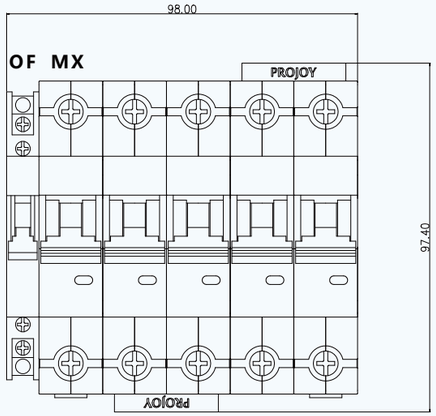
Technical parameter of shunt trip release, MX

Working voltage Us	DC: 24 ~ 48V (note:DC10~24V is specially used by BYD)
Maximum deduction time	< 10ms
Coil resistance	5Ω
Limited current	≥1.6A
Mechanical life	10000 times
Electrical life	4000 times
Torque	2.0 ~ 3.5N · m
Wiring ability	1 ~ 35mm² (hard line), 1 ~ 35mm² (Soft line, with hoop line terminal)
Range of working temperature	-30 ℃ ~+70 ℃
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	Left side of the circuit breaker
Installation conditions	DIN35mm

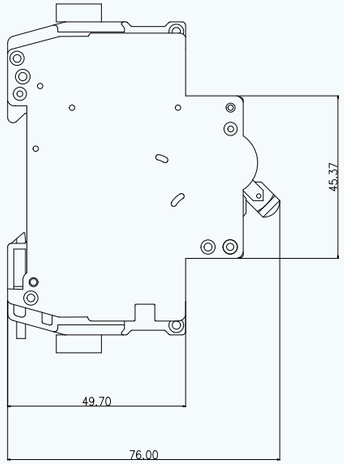
Technical parameters auxitiary contact, OF

Capacity of OF	AC13: Ie=3A; Ue=250V AC15: Ie=2A; Ue=250V DC12: Ie=0.5A; Ue=110V
Minimum operating voltage	5V
Run the minimum current	10mA
Rated insulation voltage	500V
Rating restricted short -circuit current Ik	1000A
Conventional thermal current Ith	4A
Mechanical life	10000 times
Electrical life	4000 times
Torque	0.3 ~ 0.8N m
Wiring ability	1 × 1.0 ~ 1 × 2.5mm²
Number of contacts	1 NO contact, 1 NC contact
Range of working temperature	-30 ℃ ~+70 ℃
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	Left side of the circuit breaker
Installation conditions	DIN35mm

Dimensions

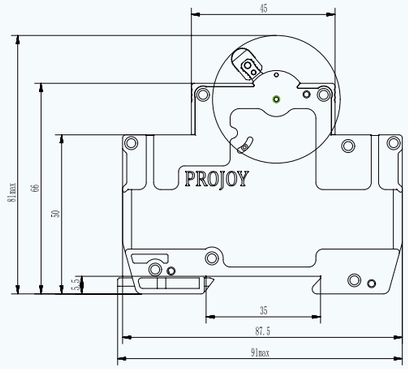


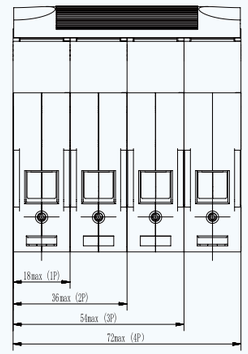
Tolerance: ± 0.5mm

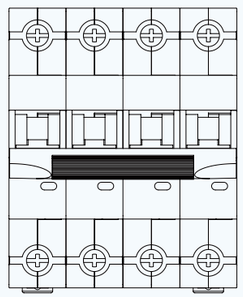


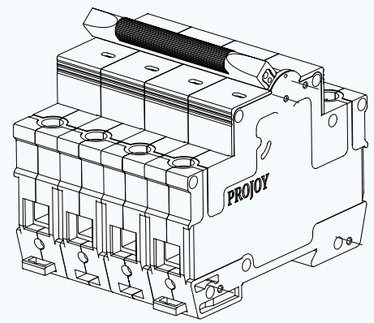
Dimensions

Unit: mm









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	/