Specifications and technical data are subject to change without notice.
Please contact to confirm relevant information on ordering.

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PHOTOVOLTAIC PRODUCT

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EBASEE

Smart Living Green Ebasee

PHOTOVOLTAIC PRODUCT

COMPANY PROFILE

As a leading supplier in the low voltage electrical industry, Shanghai Ebasee Electric Co., Ltd. products have been used for residential, commercial and industrial applications. EBASEE brand is recognized for its quality and reliability in an ever-increasing number of markets worldwide. So far EBASEE products have been testified by international labs including BV, TUV, Intertek, with KEMA, CB, SEMKO, RoHS, CE, and CCC etc.

With qualified raw materials and components supply, all products are manufactured by EBASEE's defined international specifications. We have 4 semi-auto production lines, up-to-date quality control facilities, well-trained and experienced workers. Moreover, with a technical R & D team and fully equipped CNAS laboratory, EBASEE factory can carry out efficient new products development, daily production and QC.

EBASEE have a wide range of cooperations with world leading companies in new products development, OEM and ODM cooperation. Meanwhile, we process the idea of green and smart energy, working with universities such as Xi'an Jiao Tong University to get more intelligent and environmental-friendly electric solutions.

EBASEE focused on achieving growth through the success of worldwide partners. Guided by the philosophy of "customer-oriented", powered by the idea of "quick response and flexible supply", EBASEE support our worldwide partners to compete against established players, to deliver the most systematic and cost-effective products and service in the market.

"Smart Living, Green EBASEE"

01 Verified Custom Manufacturer

02 Supplier of Fortune 500 Companies

03 Registered Trademarks

Quality is our culture!

CERTIFICATE

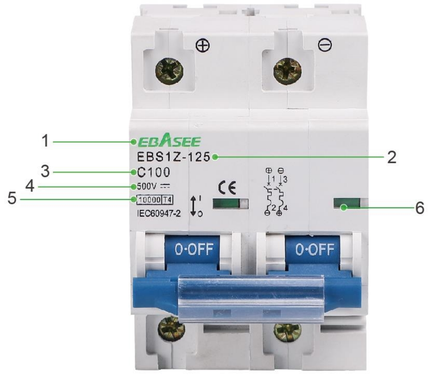
EBASEE products have been approved by international labs including BV, TUV, Intertek CQC, with KEMA, CB, SEMKO, RoHS, CE, and CCCs etc.

1.General

EBS1Z series DC mini Circuit Breaker is suitable in normal current 125A and below, directly-current rated voltage DC 250V-1000V, uses for carries on the overload, short-circuit protection to the current electrical power distribution system's facility and the electrical equipment, and used in professional electric power, posts and telecommunications transportation, industrial and mining establishments, and so on.
It comply with IEC60947-2 standards.

2.Nomenclature

1. Company code
2. Design code
3. Rated current
4. Rated voltage
5. Breaking capacity
6. ON/OFF Indicator



Note:

1. Air Temperature: Operating temperature range is -5°C to +40°C, and storage temperature range is -25°C to +75°C.

2. Altitude: The installation location's altitude should not exceed 2000 meters. If it's above 2000 meters, the equipment's capacity should be derated.

3. Atmospheric Conditions: The relative humidity of the air at the installation location should not exceed 50% at +40°C, and it should not exceed 90% at an average temperature of the most humid month (+20°C).

4. Installation Category: Installation falls under Category II and III.

5. Pollution Degree: Pollution degree is 2.

6. Installation Method: Install using standard TH35-7.5 type mounting rail.

7. Installation Conditions: The inclination between the installation surface and the vertical plane should not exceed 5°. The installation location should be free from significant impacts and vibrations.

8. Wiring Method: Utilize screw clamping connections to ensure a fast and secure connection of conductors.

3.Specifications

Standard		IEC 60898-2			
Number of poles		1P	2P	3P	4P
Rated working voltage (V DC)		250	500	750	1000
Frame level		125A			
Rated current (In) (A)		80, 100, 125			
Rated insulation voltage Ui (V DC)		1000/1200			
Tripping characteristics		C			
Tripping type		Thermal-magnetic			
Rated ultimate short-circuit breaking capacity (Icu)		10kA			
Rated service short-circuit interrupting capacity (Ics)		10kA			
Mechanical life (times)	Actual	20000 times			
	Standard	9700 times			
Electric life (times)	Actual	Average 1000 times			
	Standard	300 times			
Overvoltage category		Ⅲ			
Pollution degree		2			
Ingress protection		IP40.wiring port IP20			
Relative humidity		≤95%			
Vibration		Acc.to IEC60068-2-6			
Shocks		Acc.to IEC60068-2-27			
Terminal capacity		2.5-35mm^2			
Fastening torque fo teminals		2.0-2.5N·m			
Ambient temperature		-5°C~+40°C			
Storage temperature		-25°C~+75°C			
Installation method		DIN35mm			
Elevation		≤2000m			

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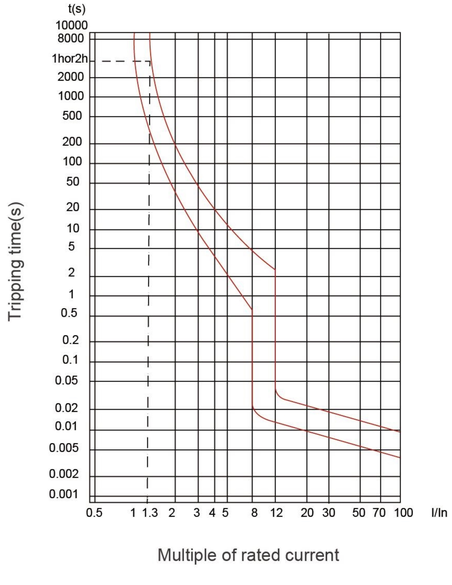
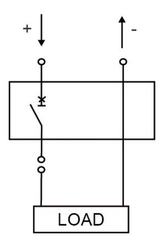
4.Tripping Characteristic

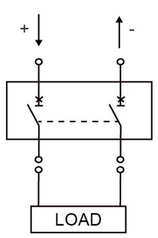


5.Connection Diagram

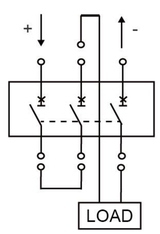
1P-DC250V



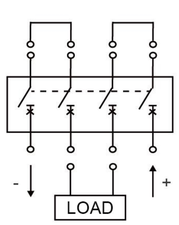
2P-DC500V



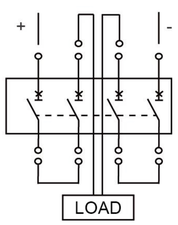
3P-DC750V



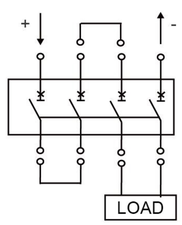
4P-DC1000V-1



4P-DC1000V-2



4P-DC1000V-3



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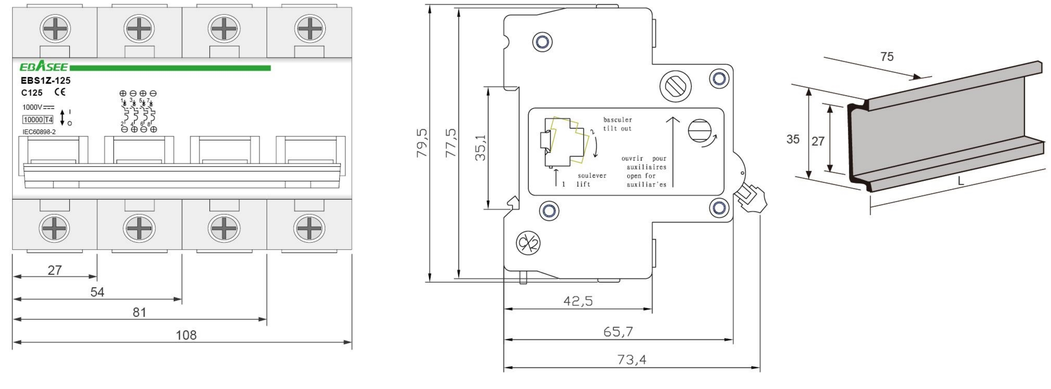
6.Dimensions



7.Order Note

Following items should be marked when ordering	Ordering sample
Product name, model & frame level Poles Tripping characteristic and rated current Quantity	To order the EBS1Z-125 miniature circuit breaker, 1P, Curve C, rated current is 100A, and quantity is 100 pieces, should be marked: MCB EBS1Z-125/1PC100, 100 PCS.

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8.Accessories

Standard	Rated voltage	Dielectric strength (1min)	Endurance	Application category	Connection capacity (max.)	Pollution degree	Installation category	Ambient temperature	Altitude (max.)
IEC62019	230V	2000V	4000(Time)	DC14	2.5mm²	2	3	-5 to+40℃	2000(meter)

Auxiliary Contact

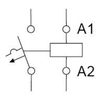
EBS1Z-OF

Rated voltage	230V DC	400V DC	24V DC	48V DC
Rated current	6A	3A	6A	2A

Mounted on the left side of EBS1Z MCBs
Indicate the status of making or breaking of EBS1Z MCBs
Width: 9 mm

Shunt Release

EBS1Z-MX



Rated voltage	230V DC	400V DC	24V DC	48V DC
Rated current	6A	3A	6A	2A

Mounted on the right side of EBS1Z MCBs
To control the EBS1Z MCBs from long distance
Width: 18 mm

Auxiliary Alarm

EBS1Z-SD

Rated voltage	230V DC	400V DC	24V DC	48V DC
Rated current	6A	3A	6A	2A

Mounted on the left side of EBS1Z MCBs
Indicate the status of making or breaking of EBS1Z MCBs
Width: 9 mm

Under/over Voltage Release

EBS1Z-U2+O2

Rated voltage	230V DC	400V DC	24V DC	48V DC
Rated current	6A	3A	6A	2A

Mounted on the right side of EBS1Z MCBs
Make the EBS1Z MCBs trip when voltage is over or under the rated voltage
Width: 18 mm