Specifications and technical data are subject to change without notice.

Please contact to confirm relevant information on ordering.

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EBASEE

Smart Living Green Ebasee



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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.



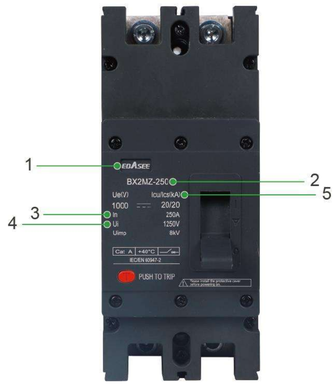


1.General

BX2MZ series DC moulded case circuit breaker is developed by advanced design and manufacturing technology, suitable for rated voltage is DC250V, DC500V, DC750V and DC 1000V, rated current up to 800A, the circuit breaker have function of short circuit, overload and under-voltage protection to protect circuit and power equipment against damage. The breaker are comply with the IEC60947-1 and IEC60947-2.

2.Nomenclature

1. Company code
2. Design code
3. Rated current
4. Rated insulation voltage
5. Breaking capacity



Note

1. Air Temperature: Operating temperature range is -5°C to +40°C, and storage temperature range is -25°C to +70°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 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.

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

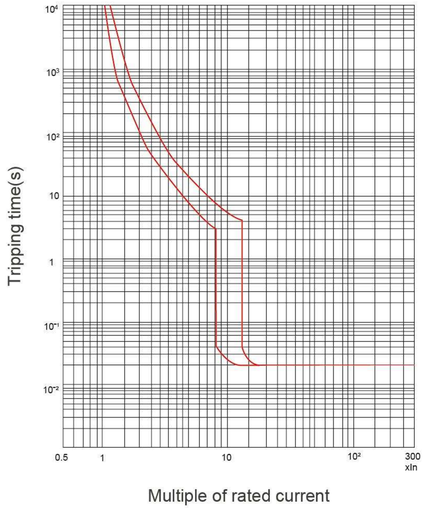
3.Specifications

Standard		IEC60947-1 and IEC60947-2						
Type		BX2MZ-250			BX2MZ-400			
Pole		2		3	2			3
Rated working voltage Ue (V)		DC500	DC1000	DC1500	DC250 /500	DC750 /1000	DC1250 /1500	DC1250 /1500
Rated insulation voltage Ui (V)		DC1250		DC1500	DC1500			
Rated impulse withstand voltage Uimp(kV)		8		12	12			
Rated current In (A)		63, 80, 100, 125, 140, 160, 180, 200, 225, 250			225, 250, 315, 350, 400			
Rated ultimate short-circuit breaking capacity Icu(kA)	H	50	20	20	65	35	15	15(2P connection) 20(3P connection)
	R	55	25	25	70	40	20	20(2P connection) 25(3P connection)
Rated operating short-circuit breaking capacity Ics(kA)		Ics=100%Icu						
Wiring		2 in 2 out						
Category		A						
Isolation function		Yes						
Ambient temperature		-35°C~+70°C						
Mechanical life (times)		20000			10000			
Electrical life (times)		3000	2000	1500	1000	1000	700	500
Standards compliant		IEC/EN 60947-2						
Accessory		shunt, auxiliary, alarm, manual operation, electric operation						

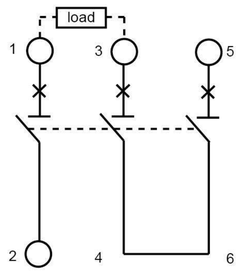
Standard		IEC60947-1 and IEC60947-2							
Type		BX2MZ-630				BX2MZ-800			
Pole		2			3	2			3
Rated working voltage Ue (V)		DC250 /500	DC750 /1000	DC1250 /1500	DC1250/1500	DC250 /500	DC750 /1000	DC1250 /1500	DC1250/1500
Rated insulation voltage Ui (V)		DC1500				DC1500			
Rated impulse withstand voltage Uimp(kV)		12				12			
Rated current In (A)		500, 600				700, 800			
Rated ultimate short-circuit breaking capacity Icu(kA)	H	65	35	15	15(2P connection) 20(3P connection)	65	35	15	15(2P connection) 20(3P connection)
	R	70	40	20	20(2P connection) 25(3P connection)	70	40	20	20(2P connection) 25(3P connection)
Rated operating short-circuit breaking capacity Ics(kA)		Ics=100%Icu							
Wiring		2 in 2 out							
Category		A							
Isolation function		Yes							
Ambient temperature		-35°C~+70°C							
Mechanical life (times)		5000				5000			
Electrical life (times)		1000	1000	700	500	1000	1000	700	500
Standards compliant		IEC/EN 60947-2							
Accessory		shunt, auxiliary, alarm, manual operation, electric operation							

D

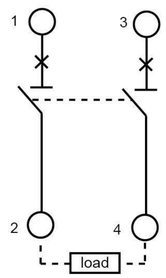
4.Tripping Characteristic



5.Connection Diagram



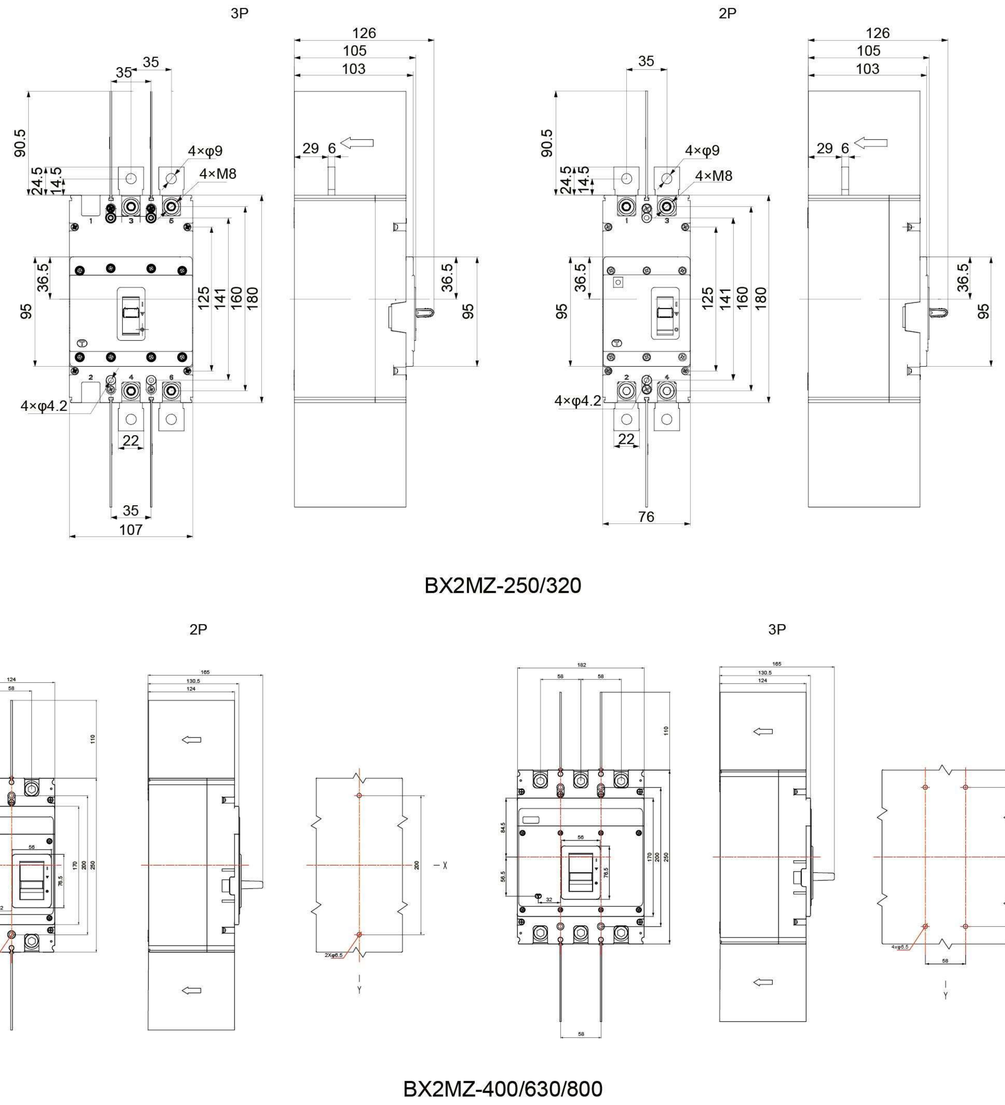
3P (three-pole connection)



2P (two-pole connection)
3P (two-pole connection)

D

6.Dimensions

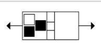


7.Order Note

Following items should be marked when ordering	Ordering sample
Product name and model Frame current Rated current, Poles Quantity	To order BX2MZ DC MCCB, rated current is 225A, 3poles, quantity is 100 pieces, should be marked: DC Moulded Case Circuit Breaker BX2MZ-225/225A/3P, 100PCS.

D

8.Accessories

Auxiliary name	BX2MZ-250/320	BX2MZ-400/630/800
No inner accessory	—	—
Alarm contact		
Shunt release		
Auxiliary contact(1NO1NC)		
Auxiliary contact (2NO 2NC)	—	
Under-voltage release	—	—
Shunt release+auxiliary contact(1NO 1NC)		
Shunt release+auxiliary contact (2NO 2NC)	—	—
Shunt release+under-voltage release	—	—
2 pairs of auxiliary contact (2NO 2NC)		—
3 pairs of auxiliary contact (3NO 3NC)	—	—
4 pairs of auxiliary contact (4NO 4NC)	—	—
Under-voltage release+auxiliary contact (1NO 1NC)	—	—
Under-voltage release+auxiliary contact (2NC 2NO)	—	—
Shunt release+alarm contact	—	
Auxiliary contact(1NO 1NC)+alarm contact		
Under-voltage release+alarm contact	—	—
Shunt release+auxiliary contact (1NO 1NC)+alarm contact	—	
Shunt release auxiliary contact (2NO 2NC)+alarm contact	—	—
2 pairs auxiliary contact (2NO 2NC)+alarm contact		
4 pairs auxiliary contact (4NO 4NC)+alarm contact	—	—
3 pairs auxiliary contact (3NO 3NC)+alarm contact	—	—
1 pairs auxiliary contact (1NO 1NC)+under-voltage release+alarm contact	—	—
2 pairs auxiliary contact (2NO 2NC)+under-voltage release+alarm contact	—	—

D



1. Alarm contact
2. Undervoltage release
3. Shunt release
4. Auxiliary contact
5. Extend terminal
6. Motor operator
7. Arc baffle
8. Insulation cover
9. Handle

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1.General

ELR2 Series DC Isolator Switch in plastic enclosure is applied to 1~20KW residential or commercial photovoltaic system, placed between photovoltaic modules and inverters. Arcing time is less than 8ms, that keeps solar system more safe. To ensure its stability and long service life, our products are made by components with optimum quality. Max voltage is up to 1200V DC. It holds a safe lead among similar products.

- IP66 rated enclosure, UV Resistant
- 4 x M20 knock holes
- The handle can be padlocked in the “OFF” position
- MC4 plugs can be selected for convenient connection and space saving
- 2 Poles, 4Poles are available (Single I Double String)
- Standard: IEC60947-3, AS60947.3
- DC-PV2, DC-PV1, DC-21B
- 16A, 25A, 32A, DC1200V

2.Nomenclature

1. Company code
2. Ingress protection
3. Wiring type/rated current
4. NO enclosure style



Note

1. Air Temperature: Operating temperature range is -30°C to +70°C, and storage temperature range is -40°C to +70°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 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.

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

3.Specifications

Type	Standard		IEC/EN 60947-3, AS60947.3
Electrical features	Function		Isolator, Control
	Poles	P	4
	Utilization category		DC-PV2/DC-PV1/DC-21B
	Rated frequency		DC
	Rated operational voltage(Ue)	V	300, 600, 800, 1000, 1200
	Rated operational current(Ie)		see below table
	Rated insulation voltage(Ui)	V	1200
	Conventional free air thermal current(Ithe)		//
	Conventional enclosed thermal current(Ithe)		same as Ie
	Rated short-time withstand current(Icw)		1kA, 1s
	Rated impulsed withstand voltage(Uimp)	kV	8
	Overvoltage category	t	II
	Suitability for isolation		Yes
	Polarity		NO polarity,“+”and“-”polarities could be interchanged
Mechanical features	Electrical life	t	2000
	Mechanical life	t	18000
Installation	Ingress protection		IP66
	Storge temperature	℃	-40~+85
	Mounting		Vertically or horizontally
	Pollution degree		3

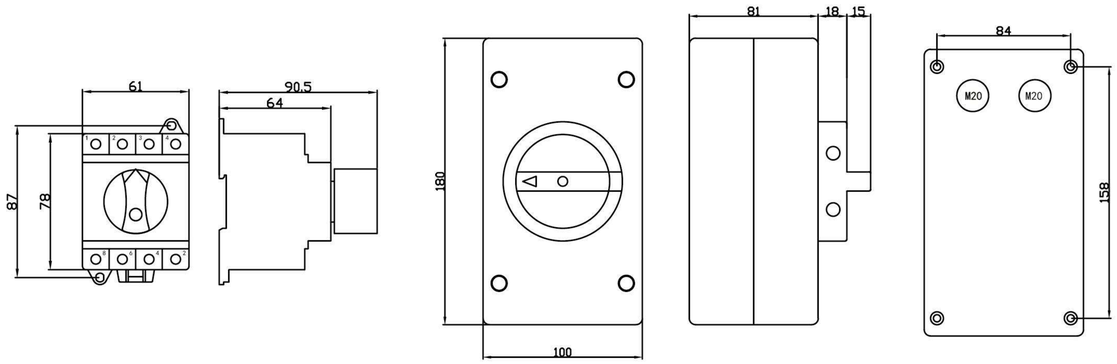
Wiring	Type	300V	600V	800V	1000V	1200V
2P/4P	BXPV-ELR2 16	16A	16A	12A	8A	6A
	BXPV-ELR2 25	25A	25A	15A	9A	7A
	BXPV-ELR2 32	32A	27A	17A	10A	8A
4T/4B/4S	BXPV-ELR2 16	16A	16A	16A	16A	16A
	BXPV-ELR2 25	25A	25A	25A	25A	25A
	BXPV-ELR2 32	32A	32A	32A	32A	32A
2H	BXPV-ELR2 16	35A	35A	/	/	/
	BXPV-ELR2 25	40A	40A	/	/	/
	BXPV-ELR2 32	45A	40A	/	/	/

D

4.Connection Diagram

Type	2-pole	4-pole	2-pole 4-pole in series Input and Output bottom	2-pole 4-pole in series Input and Output on top	2-pole 4-pole in series Input on top and Output bottom	2-pole 4 paralleted poles
/	2P	4P	4T	4B	4S	2H
Contacts wiring graph						
Switching example						

5.Dimensions



6.Order Note

Following items should be marked when ordering	Ordering sample
Product name, model Poles Rated current Quantity	To order the DC Isolator Switch BXPV-ELR2, 4P, rated current is 32A, Rated operational voltage is 600V, and quantity is 100 pieces, should be marked: BXPV-ELR2 4P 32A 600V, 100 PCS.

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1.General

These fuse holders are supporters for fuses with size up to 14*85mm. They are capable of working under heat cased by rated current and expected short impacting current up to 20kA. It can also function as a fuse disconnecting switch by multi-phase combination. There are two in/out lines at the BXPV fuse base, providing a power cut function.
Rated voltage up to 1500V; Conventional free air thermal current up to 63A; Compliant with IEC602696.

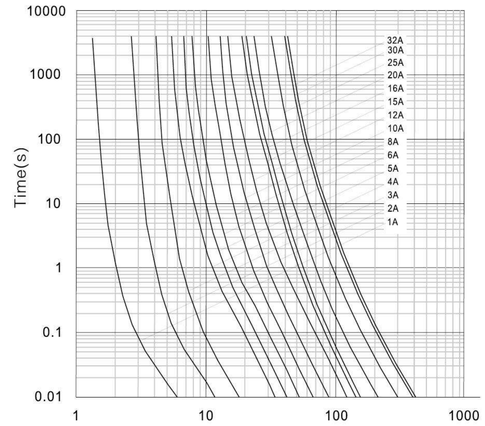
2.Specification

Standard	IEC60269-6
Fuse base	BXPV-63T
Fuse link	10x85mm, 14x85mm
Class of operation	gPV
Time constant	1-3ms
Rated voltage Ue(V DC)	1500
Rated Current In(A)	1-63A
Biggist block ability(KA)	20
The most high power consumption(W)	3.5

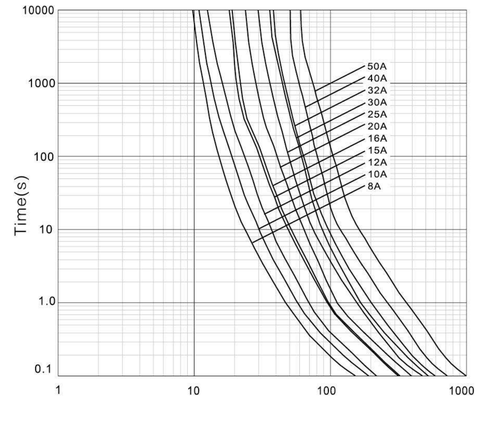
Type	Voltage	Current (A)	Dimensions(mm)	
gPV			Chart	
BXPV1085	DC1500V	2-30	1	see figure 1, 2
BXPV1485	DC1500V	2-63	2	

D

3.Tripping Characteristic



BXPV-1085 Prospective current (A RMS)



BXPV-1485 Prospective current (A RMS)

4.Dimensions



Figure 1

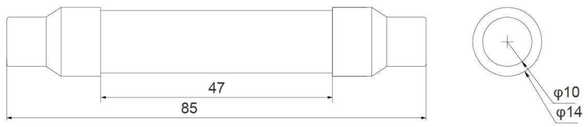


Figure 2



5.Order Note

Following items should be marked when ordering	Ordering sample
Product name, poles Rated current With indicator or without Quantity	To order the BXPV-63T Fuse, 1P, rated current is 32A, and quantity is 100pcs, should be marked: Fuse BXPV-63T 1P 32A, 100PCS.

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1.General

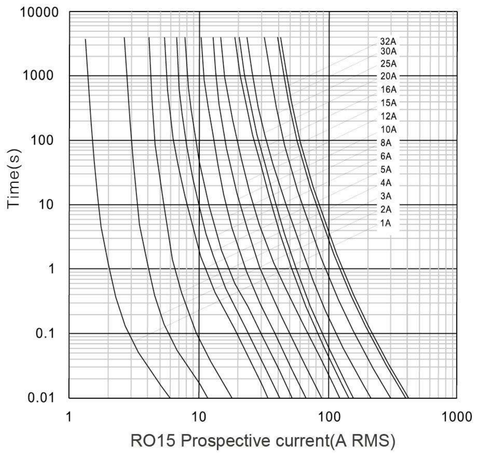
A range of 10x38mm fuse links specifically designed for protecting photovoltaic strings, these fuse links are capable of interrupting low overcurrents associated with faulted photovoltaic string arrays (reverse current, multi-array fault) rated insulated voltage up to 690V, conventional free air thermal current up to 32A; compliant with IEC60269-1 and IEC60269-6.

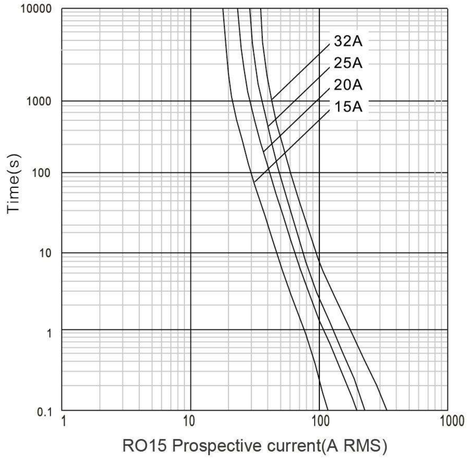


2.Specification

Standard	IEC60269-1, IEC60269-6
Fuse base	RT18Z-32/RT18Z-32X
Fuse link	10X38mm
Pole	1P, 2P, 3P, 4P
Class of operation	gPV
Time constant	1-3ms
Rated voltage Ue(V DC)	1000
Rated Current In(A)	1-32A
Biggist block ability(kA)	20
The most high power consumption(W)	3.5

3.Tripping Characteristic





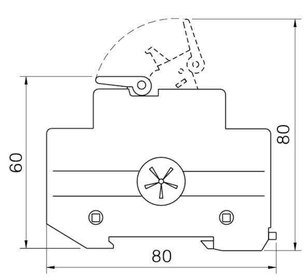
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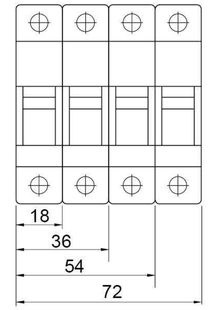


4.Dimensions

RT18Z-32/RT18Z-32X 32A 1000VDC 10X38

- Rated voltage: 1000VDC
- Class of operation: gPV
- Standard: IEC 60269-6

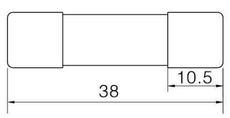


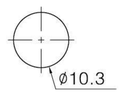




RO15Z 10X38 1-32A 1000VDC

- Fuse size: 10X38mm
- Class of operation: gPV
- Standard: IEC 60269-6
- Breaking capacity: 20kA
- Time constant: 1-3ms





RO15Z

5.Order Note

Following items should be marked when ordering	Ordering sample
Product name, poles Rated current With indicator or without Quantity	To order the RT18Z-32 Fuse, 1P, rated current is 32A, and quantity is 100pcs, should be marked: Fuse RT18Z-32 1P 32A, 100PCS.

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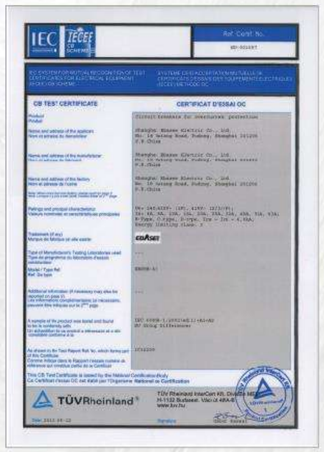
INTERNATION QUALITY CERTIFICATE

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

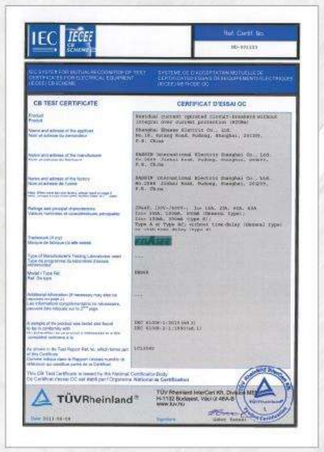




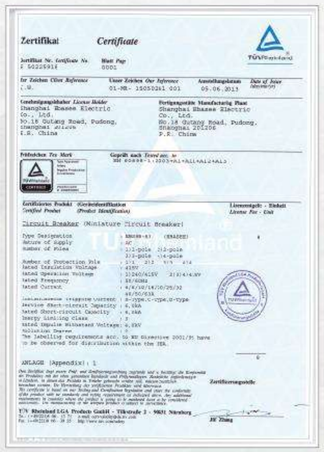


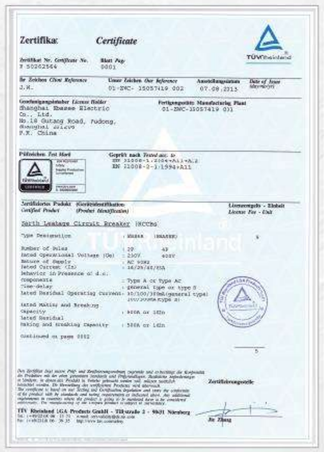












D

1.Function

EBS2UZ DC surge arrester is to be installed in 1000V DC system for PV application and other DC application.The product is to installed in lightning protection zone between LPZ1 to LPZ2 for PV system DC side and other DC distribution box. It will provide surge protection against lighting strike and other surge current.



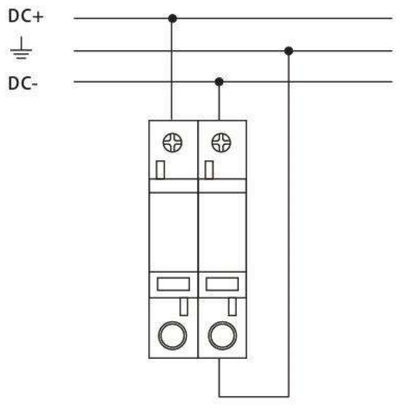
2.Nomenclature

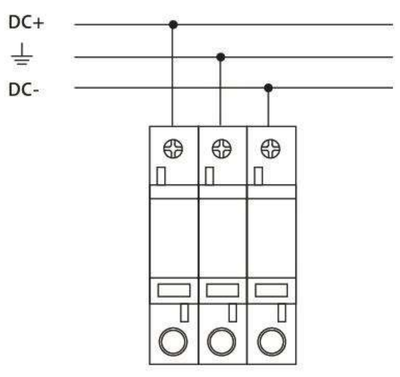
EBS 2UZ - 60 / D 10 / 1P

- Poles: 2P, 3P
- Rated release current: 5, 10, 15, 20kA
- Protect level: TYPE 2
- Max. release current: 10, 20, 40kA
- Design code
- Company code

3.Installation

EBS2UZ should be installed as following in 1000V DC PV system or other DC system:



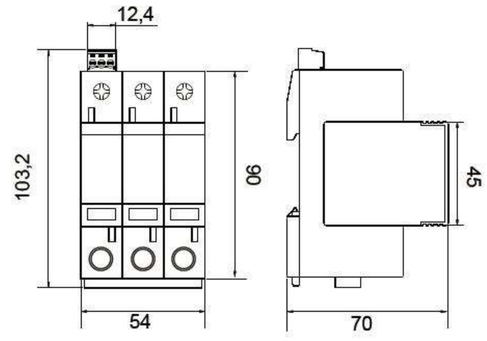


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4.Specifications

Type	Standard		IEC/EN 61643-1
Electrical features	SPD Type		TYPE2
	Max. Continuous operating a.c.voltageVoltage UCPV	V	DC1000
	Norminal discharge current (8/20μs) In	A	20k
	Max. discharge current (8/20μs) Imax	A	40k
	Voltage protection level Up	V	＜3.8kV
	Short circuit withstand ISCPV	A	1000
	Location		Indoor
	SPD failure behavier		open circuit mode
	Residual current IPE ac. and dc.		500μA; 50μA
	Response time		25ns
	Follow current extinguishing capability a.c.		No follow current
	Operating temperature and humidity	℃	-40~+70 5% to 95%
	Enclosure material		PA-6V0
	Protection Level		IP2X
Installation	Terminal connection type		Cable
	Terminal size top / bottom for cable	mm²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm²	25
		AWG	18-3
	Tightening torque	N*m	2.5
		In-lbs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

5.Dimensions



D

6.Routine maintenance

- The SPD should be checked from time to time to make sure that the indicator is green colour.
- The SPD should not be rewired once the installation is done.The earthing cable should be as short as possible.
- The SPD should be changed once the indicator turns to red.

7.Order Note

Following items should be marked when ordering	Ordering sample
Product name, model & protection level Poles Max.release current Max.continuous working voltage Quantity	To order the EBS2UZ Surge Protector,Imax=40kA In=10kA, protection level is TYPE2,1 Poles,Uc=1000 and quantity is 100 pieces, should be marked: surge protector EBS2UZ-40/10/1P/1000,100PCS.

Specifications and technical data are subject to change without notice.

Please contact to confirm relevant information on ordering.

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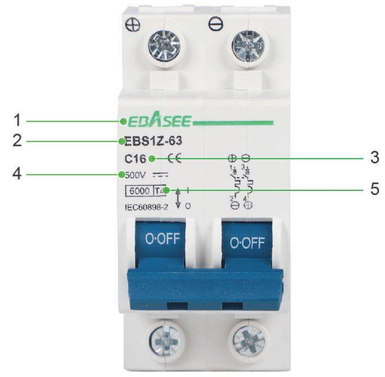


1.General

EBS1Z series DC mini Circuit Breaker is suitable in normal current 63A 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 IEC60898-2 standards.

2.Nomenclature

1. Company code
2. Design Code
3. Rated current
4. Rated voltage
5. Breaking capacity



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.

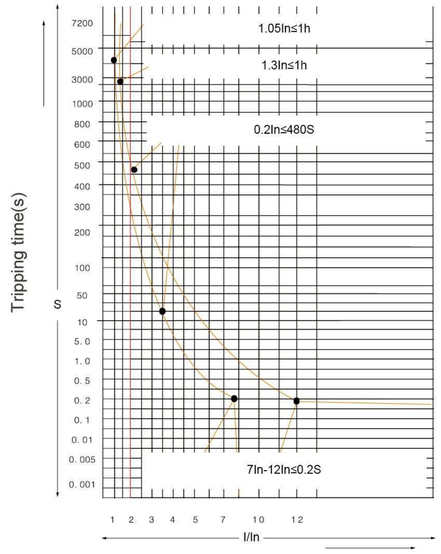
8. Wiring Method: Utilize screw clamping connections to ensure a fast and secure connection of conductors.

3.Specifications

Standard		IEC 60898-2			
Number of poles		1P	2P	3P	4P
Rated working voltage (V DC)		250	500	750	1000
Frame level		63A			
Rated current (In) (A)		6, 10, 16, 20, 25, 32, 40, 50, 63			
Rated insulation voltage Ui (V DC)		1000/1200			
Tripping characteristics		C			
Tripping type		Thermal-magnetic			
Rated ultimate short-circuit breaking capacity (Icu)		6kA			
Rated service short-circuit interrupting capacity (Ics)		6kA			
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		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			

D

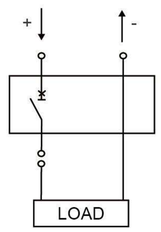
4.Tripping Characteristic



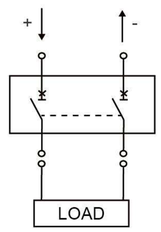
Multiple of rated current

5.Connection Diagram

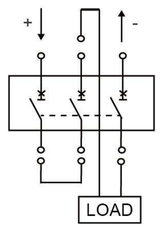
1P-DC250V



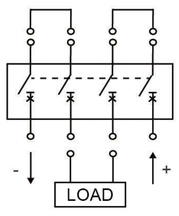
2P-DC500V



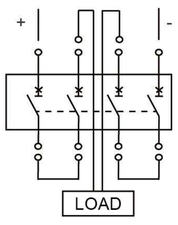
3P-DC750V



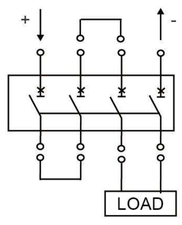
4P-DC1000V-1



4P-DC1000V-2

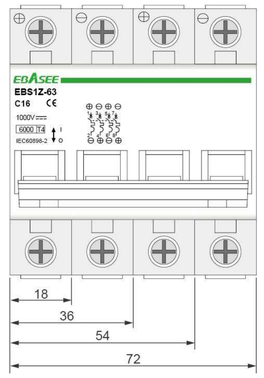


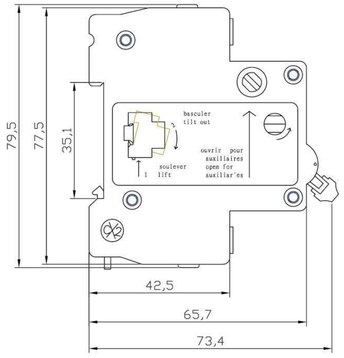
4P-DC1000V-3

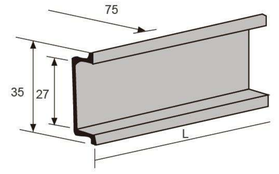


D

6.Dimensions







7.Order Note

Following items should be marked when ordering	Ordering sample
Product name, model & frame level	To order the EBS1Z-63 Miniature Circuit Breaker, 1P, curve C, rated current is 63A, and quantity is 100 pieces, should be marked: MCB EBS1Z-63/1PC63, 100 PCS.
Poles	
Tripping characteristic and rated current	
Quantity	

Specifications and technical data are subject to change without notice.

Please contact to confirm relevant information on ordering.

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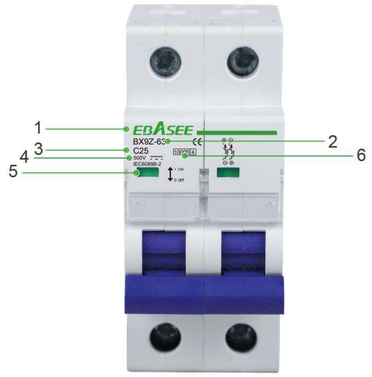


1.General

BX9Z series DC Mini breaker is suitable in normal current 63A and below, directly-current, rated voltage DC 250V-1000V, uses for carries on the overload short-circuit protection to the current electrical power distribution systems facility and the electrical equipment, and used in professional electric power, postes and telecommunications transportation, industrial and mining establish-ments, and so on. It comply with IEC 60898-2 standards.

2.Nomenclature

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



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.

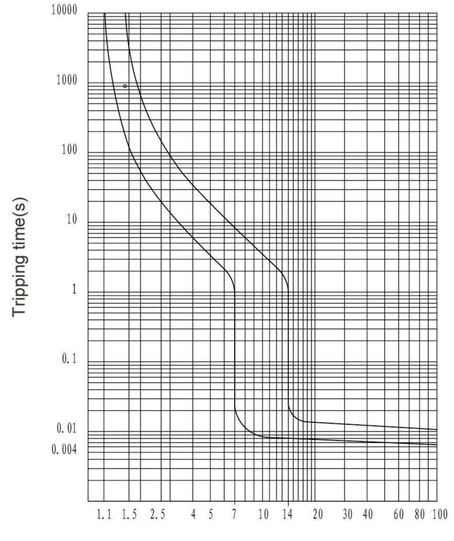
8. Wiring Method: Utilize screw clamping connections to ensure a fast and secure connection of conductors.

3.Specifications

Standard		IEC 60898-2			
Number of poles		1P	2P	3P	4P
Rated working voltage (V DC)		250	500	750	1000
Frame level		63A			
Rated current (In) (A)		6, 10, 16, 20, 25, 32, 40, 50, 63			
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		IP20			
Relative humidity		≤95%			
Vibration		Acc.to IEC60068-2-6			
Shocks		Acc.to IEC60068-2-27			
Terminal capacity		$2.5\text{-}35mm^2$			
Fastening torque fo teminals		2.0-2.5N·m			
Ambient temperature		-5°C~+45°C			
Storage temperature		-25°C~+75°C			
Installation method		DIN35mm			
Elevation		≤2000m			

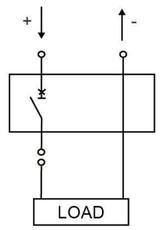
D

4.Tripping Characteristic

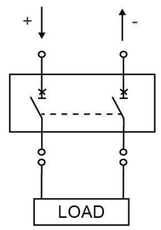


5.Connection Diagram

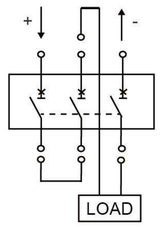
1P-DC250V



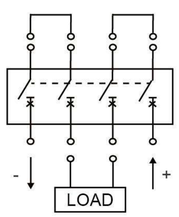
2P-DC500V



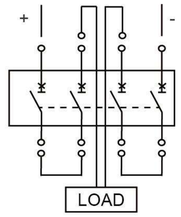
3P-DC750V



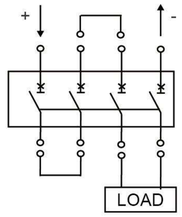
4P-DC1000V-1



4P-DC1000V-2



4P-DC1000V-3

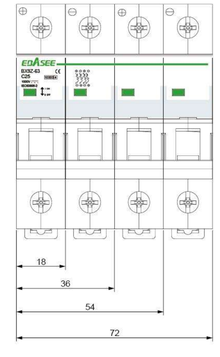


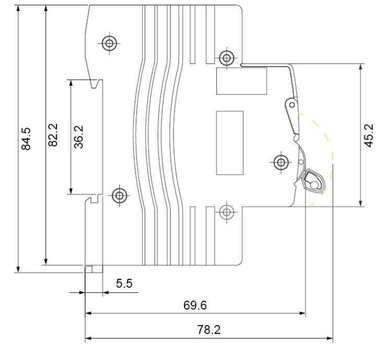
Note:

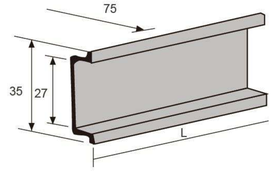
Non-Polarized DC Circuit Breaker is convenient for users to connect, avoiding accidents caused by polarity errors in DC systems.
Please contact us for details if you need non-polarized DC Circuit Breaker.

D

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 BX9Z-63 Miniature Circuit Breaker, 1P, curve C, rated current is 63A, and quantity is 100 pieces, should be marked: MCB BX9Z-63/1PC63, 100 PCS.

D

8.Accessories

OF Auxiliary Contact



Rated insulating voltage(Ui)	500V
Rated power voltage (Us)	DC 400V, 230V, 125V
Operate voltage range	70%～100% Us
Contact capacity	DC: 3A/400V DC: 6A/230V DC: 9A/125V
Dielectric strength	2kV/1min
Electro-mechanical endurance	≥ 4000

Mounted on the left side of BX9Z MCBs
Indicate the status of making or breaking of BX9Z MCBs
Width: 9 mm

SD Alarm Switch



Rated insulating voltage (Ui)	500V
Rated power voltage (Us)	DC 400V, 230V, 125V
Operate voltage range	70~100% Us
Contact capacity	DC: 3A/400V DC: 6A/230V DC: 9A/125V
Dielectric strength	2kV/1min
Electro-mechanical endurance	≥ 4000

Mounted on the left side of BX9Z MCBs
Indicate the status of making or breaking of BX9Z MCBs
Width: 9 mm

MV+MN Over/Under-voltage Tripper



Rated voltage (Ue)	DC 230V
Rated insulating voltage (Ui)	500V
Over-voltage tripping range	280V±5%
Under-voltage tripping range	170V±5%
Electro-mechanical endurance	≥4000

Mounted on the right side of BX9Z MCBs
Make the BX9Z MCBs trip when voltage is over or under the rated voltage
Width: 18 mm

Specifications and technical data are subject to change without notice.

Please contact to confirm relevant information on ordering.

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1.General

EBS1MZ series DC moulded case circuit breaker is developed by advanced design and manufacturing technology, suitable for rated voltage is DC250V, DC500V, DC750V and DC 1000V, rated current up to 250A, the circuit breaker have function of short circuit, overload and under-voltage protection to protect circuit and power equipment against damage. The breaker are comply with the IEC60947-1 and IEC60947-2.

2.Nomenclature

1. Company code
2. Design code
3. Rated current
4. Rated insulation voltage
5. Breaking capacity



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 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.

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

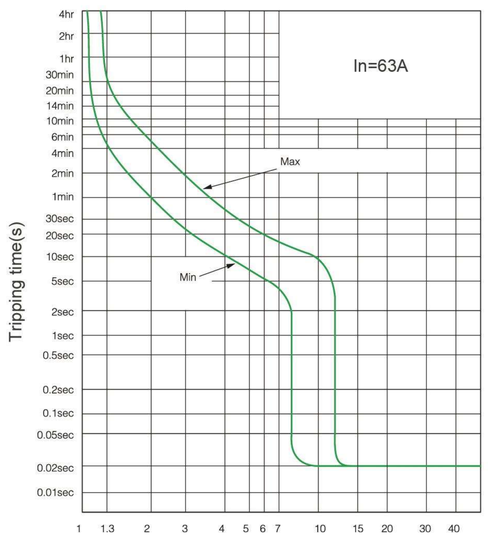
3.Specifications

Standard		IEC60947-1 and IEC60947-2					
Type		EBS1MZ-100			EBS1MZ-225		
Frame level In (A)		100			225		
Rated current In (A)		10, 16, 20, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125			16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 140, 160, 180, 200, 225, 250		
Pole number		2	3	4	2	3	4
Rated insulation voltage Ui (V)		1000					
Rated impulse withstanding voltage Uimp (V)		8000					
Rated working voltage Ue(V)		DC250 DC500	DC500 DC750	DC750 DC1000	DC250 DC500	DC500 DC750	DC750 DC1000
Using category		A					
Arcing distance (mm)		≤50					
Rated short time making capacity Icm (kA)		100% Icu					
Rated limiting short- circuit breaking capacity Icu (kA)	DC 250V	35			35		
	DC 500V	20	35		20	35	
	DC 750V		20	35		20	35
	DC 1000V			20			20
Rated service short-circuit breaking capacity Ics (kA)		75%Icu					
Electrical life (times)		5000			5000		
Mechanical life (times)	Without maintenance	10000			10000		
	With maintenance	20000			20000		

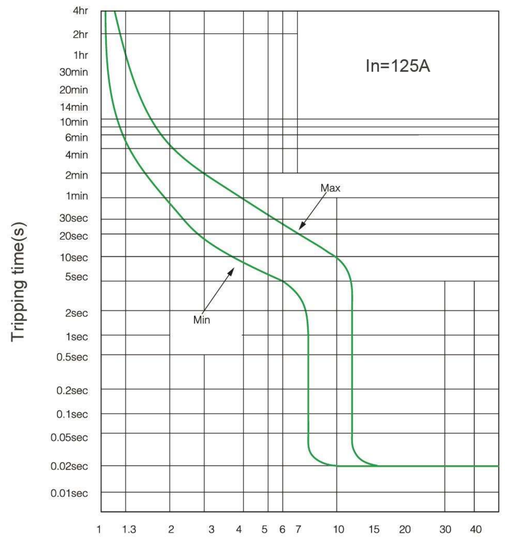
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4.Tripping Characteristic

EBS1MZ-100

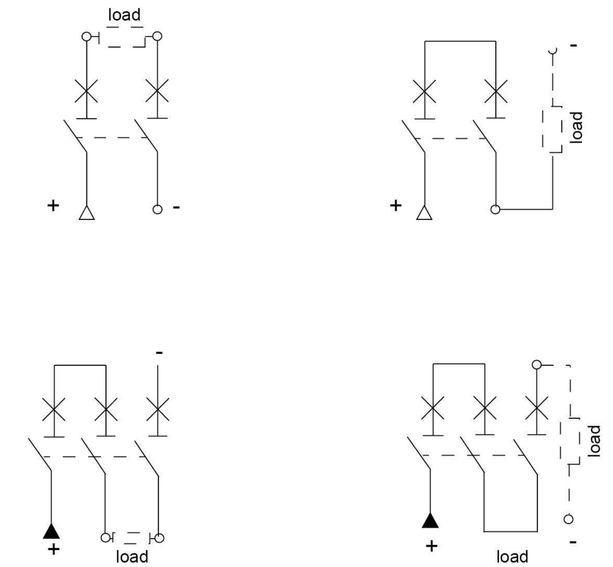


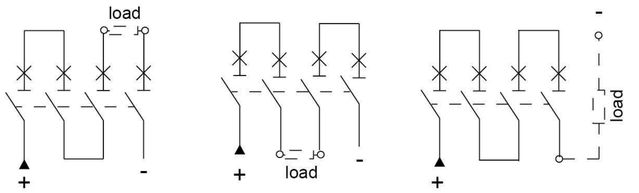
EBS1MZ-225



D

5.Connection Diagram

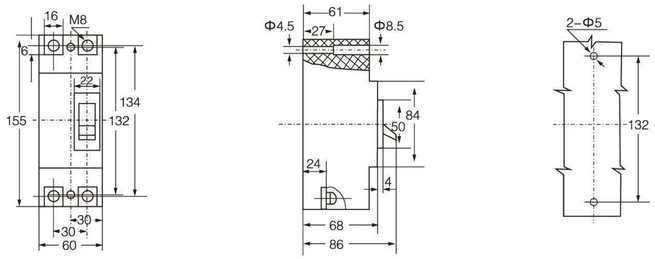




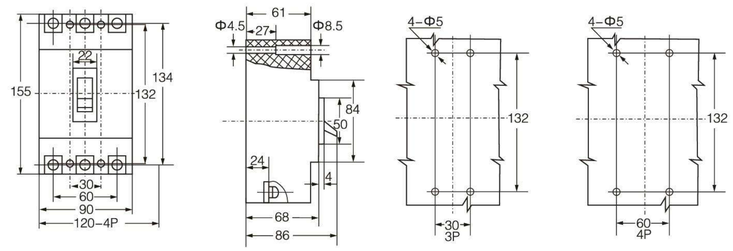
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6.Dimensions

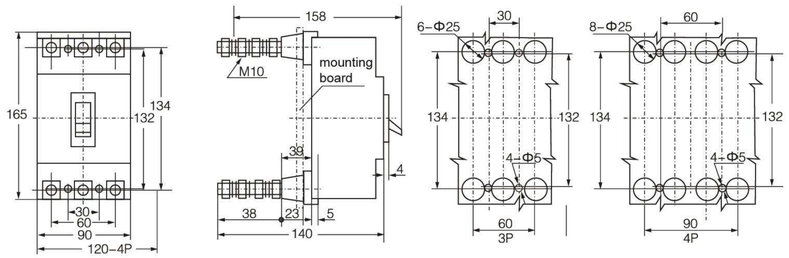
EBS1MZ-100 Front board wiring (small frame)



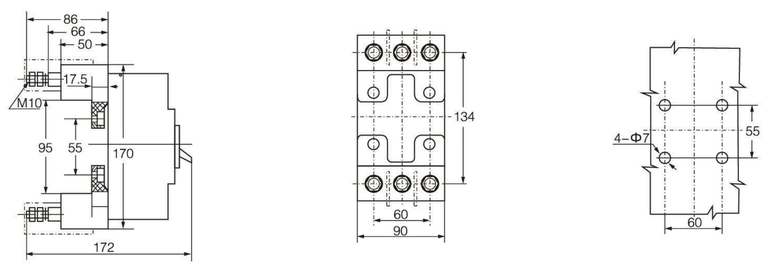
EBS1MZ-100 Front board wiring (big frame)



EBS1MZ-100 Back board wiring (big frame)

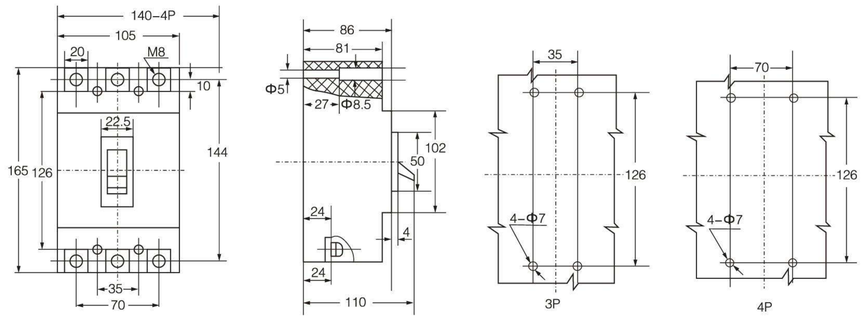


EBS1MZ-100 Plug-in wiring (big frame)

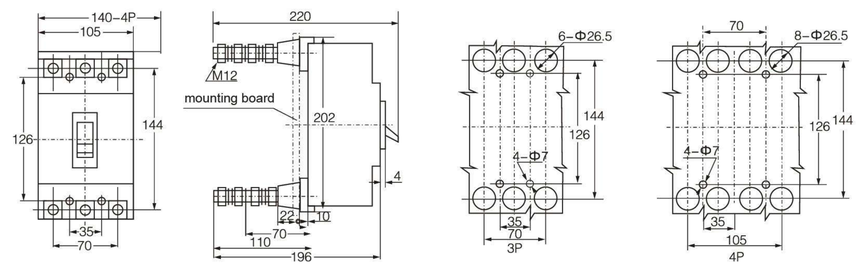


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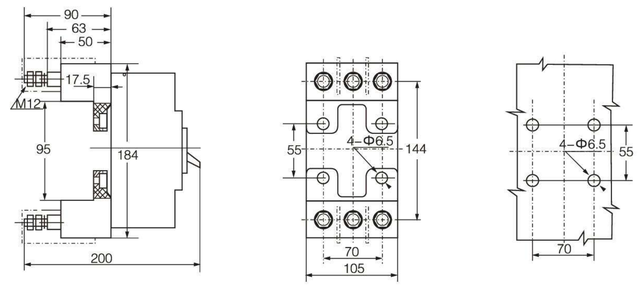
EBS1MZ-225 Front board wiring



EBS1MZ-225 Back board wiring



EBS1MZ-225 Plug-in board wiring



7.Order Note

Following items should be marked when ordering	Ordering sample
Product name and model Frame current Rated current Poles Quantity	To order EBS1MZ-225 DC MCCB, rated current is 225A, 3poles, quantity is 100 pieces, should be marked: DC Moulded Case Circuit Breaker EBS1MZ-225/225A/3P, 100PCS.