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#### 5.4 Delay setting

Short press setting key. The " LH-" delay value flashes is the range of delay. Press the reset key to adjust the recovery time with the range of 1s~90s and default value 30s.

#### 5.5 Overcurrent setting

Short press setting key. The " CP-" is the overcurrent value setting. Press the reset key to adjust the overcurrent within the range of 1A~40A with default value 5A and range of 1A~63A with default value 20A if the current value flashes.

#### 5.6 Setting confirm

Long press setting key for 5 seconds to return and display the input voltage value after all parameters are set. It means the completion of the setting.

**6. Users can connect the wires and select the appropriate cross-section of conductor according to the rated current of the protection device after the installation. Pay attention to the position of the inlet, outlet and phase sequence. It can be used after energization.**

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#### 7. Notes

7.1 Users shall abide by the relevant regulations and notes in operation or experiment so as to ensure the secure use of the products.

7.2 Connect the wire according to product inlet end and outlet end. Load current should be less than product protection current value.

7.3 The neutral line N can't be connected incorrectly and must be connected reliably, otherwise the product can't work properly.

7.4 Please carefully check whether the wiring is correct, whether the load size matches the current protection value of th product, and whether the wiring screw has been tightened before power connection, otherwise, it may cause damage to products.

7.5 Do not touch the points position after power connection, so as to avoid the electric shock.

7.6 This product has the function of short-circuit protection in cooperation with mini circuit breaker, it will not be able to play the function of limit-load protection if there is short circuit phenomenon in the inlet end or load en.

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Ebasee



**BX2PY6**

Intelligent over-voltage and current protector  
**USER'S MANUAL**

Shanghai Ebasee Electric Co.,Ltd

#### 1. Usage

Digital self-recovery overvoltage & undervoltage and overcurrent autoreclose circuit breaker protection device is a comprehensive intelligent protection device integrated with overvoltage protection, undervoltage protection and overcurrent protection. This product is able to cut off the power supply instantaneously and protect the equipment from being burned for the overvoltage fault, undervoltage fault and overcurrent fault. The protection device can automatically restore power supply when the circuit restore to the normal condition. Overvoltage value, undervoltage value, overcurrent value and delay value of this product can be set by users. Users can adjust the corresponding parameters according to actual situation.

#### 2. Product characteristics

2.1 A new generation of overvoltage and undervoltage protection device according to national standard JB/T12762-2015.

2.2 Circuit will be cut off for overvoltage and undervoltage of the single phase circuit. It will automatic reset the connecting circuit after the voltage recovery of single-phase circuit and delay of time without manual operation.

2.3 Circuit protection will produce no malfunction for transient or temporary overvoltage.

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2.4 Protection device will not be connected to the circuit for voltage instability or sudden power recovery after sudden power failure caused by weak joints.

2.5 Protection device will not be damaged for the maximum voltage of circuit fault.

#### 3. Regular service conditions and installation condition

##### 3.1 Regular service condition

###### 3.1.1 Ambient air temperature

The ambient air temperature shall not exceed +40 C or lower than -5 C with average value of 24 hours maximum +35 C.

###### 3.1.2 Altitude

The altitude of the installation site not exceed 2000m.

###### 3.1.3 Atmospheric condition

###### 3.1.3.1 Humidity

The relative air humidity of the installation site does not exceed 50% in the ambient air temperature +40 C and has a higher relative humidity at a lower temperature. For example, when the average minimum temperature of the wettest month is +20 C, the average maximum relative humidity of this month is greater than 90%. Appropriate measures should be taken to prevent condensation due to temperature changes.

###### 3.1.3.2 Pollution grade 3

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#### 3.2 Installation condition

3.2.1 Protection device can be vertically or horizontally installed in the cabinet unless otherwise specified for a particular order.

3.2.2 It should be installed in a medium without explosion risk where there is no gas or conductive dust for metal corrosion or insulation damage.

3.2.3 It should be installed in the place with no rain or snow.

#### 4. Main technical parameter

4.1.1 Rated voltage 230 frequency 50Hz

4.1.2 Rate current 1A-40A adjustable(default 5A) 1A-63A adjustable(default 63A)

4.1.3 Under-voltage action cut-off value: 160V-210V adjustable(default 160V)

4.1.4 Over-voltage action cut-off value: 230V-280V adjustable(default 275V)

4.1.5 Power recovery delay after power failure: 30s

4.1.6 Power consumptions≤2W

4.1.7 Electrical machinery life-span≥100000 times

4.1.8 Exterior dimension: 81X35X60mm

4.1.9 Overvoltage and undervoltage operation parameters and recovery parameters can be adjusted according to customer demands.

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4.1.10 This product is up in and down out.

4.2.1 Rated operation characteristics and operation time

4.2.2 Rated connection capacity

Protection device can be reliably connected and disconnected from the current value after continuous operation for long time.

Rated current priority value: 10A, 20A, 32A, 40A, 50A, 63A

4.2.3 Rated limit overcurrent 63A

#### 5. Product setting

5.1 Click the setting key to enter the overvoltage protection setting state.

##### 5.2 Overvoltage setting

Press reset key for modification within the range of 230V~280V if the digital display "UP-" overvoltage value flashes. The default value is 275VAC and is increased by 1V by clicking. The voltage value will be increased rapidly after long press. It will return after long pressing the setting button for 5 seconds. The setting will be saved.

##### 5.3 Under-voltage setting

Short press the setting key to set the  $\square$ P-undervoltage protection value. Press reset key to adjust the under-voltage value within the range of 160V-210V. The default value is 165V.

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7.7 Immediately remove the load (electric appliances) and check the circuit due to the auto reset of the product. Otherwise, the product will be frequently connected or disconnected to the load and cause the burning of products or circuit due to long time frequent overload connection and disconnection. The product will be locked after continuous protection for five times. Press reset key manual for the unlocking so as to ensure the security of equipment.

**8. Precautions for use**

8.1 Please disconnect the front stage circuit breaker switch for maintenance because it has no isolation function.

8.2 The product has direct connection to zero line N with no disconnection function.

8.3 Please install DZ47, C65 mini circuit breaker in the front stage of the circuit for overcurrent protection because this product has no over-current short circuit breaking ability.

**9. Diagram of product wiring.**

