User Manual

HDB3wLE-125

Residual Current Operated Circuit Breaker

Complied Standard:IEC/EN 60947-2

☐Please carefully read the User Manual before the installation and use of the products,keep it properly as backup.

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HDB3wLE-125 Residual Current Operated Circuit Breaker

Safety Notice

Make sure to read this manual carefully before installation, operation, maintenance and inspection, and correctly install and use this product according to the manual.

⚠ Danger:

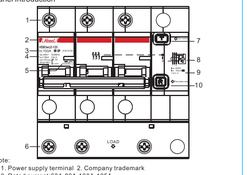
- Do not operate circuit breakers with wet hands;
- Never touch the conductive parts in use;
- Make sure that the product is electrically neutral during maintenance and care;
- Do not bite the product by means of short circuit;

⚠ Attention:

- The installation, repair and maintenance shall be implemented by qualified persons;
- Products of three-pole or four-pole are only applicable to three-phase power supply system;
- Various characteristics of the product have been set when delivery and the product cannot be disassembled or modulated at will;
- Confirm whether the rated voltage, rated current, frequency and characteristics of the product meet the working requirements before use;
- To prevent interphase short circuit, the bare wire or copper busbar at the terminal shall be insulated;
- To test the insulation resistance or power frequency withstand voltage, it is required to disconnect the electronic components between the current loops to prevent damage of the product performance;
- The product only provides leakage protection which from load end);
- It does not provide leakage protection for faults caused by less or wrong wiring;
- Stop using and contact the supplier immediately in case of any damage or abnormal sound during unpacking;
- Make waste treatment for product scrap. Thank you for your cooperation:

Learn about HDB3WLE-125 Residual Current Operated Circuit Breaker

Panel Introduction



Note:

1. Power supply terminal 2. Company trademark
3. Rated current:63A,80A,100A,125A
4. Technical parameter: Ue:230V(1P+N,2P)/400V(3P,3P+N,4P); Icu:10kA;Ics=75% Icu, Uimp:4kV
5. Conformity standard: IEC 60947-2 6. Load end 7. Test button
8. Wiring diagram 9. Residual operating current and time 10. Reset button

Conditions of Normal Use, Installation and Transportation

Conditions of normal use and installation

- The ambient temperature ranges between -20℃ and +60℃ with average value in 24h not exceeding +35℃;
- Altitude: ≤2000m;
- The atmospheric relative humidity does not exceed 50% when the highest ambient temperature is +60℃. Higher relative humidity is allowed under lower temperature, e.g. up to 90% at 20℃. Protective measures shall be taken for condensation occasionally due to temperature change.
- The external magnetic field near the installation site of the residual current operated circuit breaker shall not exceed 5 times of the geomagnetic field in any direction;
- The installation site shall be vertical, with inclination at all directions not exceeding 10°;
- It shall be installed in places free from shock and vibration, or rain and snow either;
- Pollution class: 2
- Installation category: Ⅱ、Ⅲ
- Protection level: IP20 (IP40 for installation in the distribution box, distribution cabinet or box).

Conditions of normal storage and transportation

- Temperature:-40℃~+70℃;
- Relative humidity (at 25℃): ≤95%;
- The product shall be transported gently without upside down or strong collision.

Main Specification and Technical Parameters

See Table 1 for main technical parameters

Table 1 Main technical parameters

| Model | Number of Poles | Neutral Pole | Frequency Hz | Rated Current In A | Rated Residual Operating Current I△n mA | Rated Residual Non-Operating Current I△no mA | Rated Residual Operating Current Variety Range | Rated Residual Operating Time Variety Range | Rated Residual Operating Current Characteristic Type | Rated Residual Operating Current Characteristic Type | Rated Residual Operating Current Characteristic Type