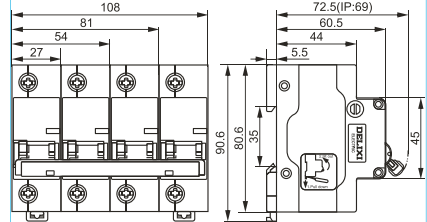


Overall and Installation Dimensions

- This series of circuit breaker adopts DIN-rail installation and the TH35-7.5 section steel mounting rail shall apply;
- Overall and Installation Dimensions.

Unit:mm



Product Accessories

- There are 6 different accessories for the circuit breaker, including OF auxiliary contact, MX+OF shunt release, SD alarm contact, MV overvoltage release, MN undervoltage release and MVMN overvoltage and undervoltage release. OF and SD are installed on the left side of the product and others on the right side.

Installation, Use and Maintenance

- Before Circuit Breaker Installation:

- (1) Check whether the technical parameters of the product on the nameplate meet the use requirements;
- (2) Close and open the product for 3 times, during which the operation shall be reliable and free of jamming.
- (3) It is recommended that the sectional area of the connecting conductor shall suit the rated current of the circuit breaker to ensure it works normally. For details, see table 3.

Rated current A	63	80	100	125
Sectional area of conductor mm ²	16	25	35	50

- (4) The reference temperature of the circuit breaker is +30°C. In case of change of ambient temperature, the rated value shall be corrected according to the temperature correction coefficient (see table 4). If multiple circuit breakers are installed in an enclosed cabinet simultaneously, the rated current shall be multiplied by the derating factor 0.8 due to appropriate temperature rise in the cabinet.

Table 4 Rated current temperature correction coefficient table

Temperature (°C)	-20	-10	0	10	20	30	40	50	60
Rated value Current (A)									
63	78.8	75.6	72.5	69.3	66.2	63	59.2	56.1	53.0
80	100	96	92	88	84	80	75.2	71.0	67
100	125	120	115	110	105	100	94	88	80
125	169.2	162.8	143.8	137.5	131.2	125	117.8	111.5	105

Maintenance and Care:

- The repair and maintenance must be implemented by qualified persons;
- Make sure that the product is electrically neutral during maintenance and care;
- Conduct maintenance and care once a year under normal operation condition. See table 5 for maintenance and care content.

Table 5 Maintenance and care

Item	Content
Appearance	Free of dust or condensation. Clean, if any. Free of damage. No discoloration at the shell or connecting terminal
Terminal connection	Tighten with a torque of 3.5N·m and ensure there is no loose.
Handle closing/opening operation	Operation shall be flexible

Unpacking Inspection

After unpacking, the user must check whether the product is intact, whether the exposed metal piece is rusty and whether the product is defective due to improper transportation or storage. In case of above phenomenon, do not use the product and timely contact the supplier.

Company commitment :

On the premise that users comply with the conditions of use and storage and the seal of the product is in good condition, if the product is damaged or cannot be used normally due to manufacturing quality problems within 36 months from the date of production, the company will be responsible for repairing or replacing the product free of charge. If the warranty period is exceeded, it shall be repaired with compensation. However, if the damage is caused by the following circumstances, it shall be repaired with compensation even within the warranty period:

- A) Due to improper use, maintenance or storage;
- B) self-modification or improper maintenance;
- C) Damage caused by falling or installation after purchase;
- D) Earthquake, fire, lightning strike, abnormal voltage, secondary disasters and other force majeure

If you have any questions please contact the distributor or our customer service department

Order notes:

The user needs to describe the order

- a) The name, model and specification of the circuit-breaker
- b) Rated current and pole number of the circuit-breaker
- c) Quantity

e.g: Need to order DZ47-125, Poles: 3, Setting current: D, Rated current: 63A, Quantity: 1000sets, It should be written as follows: DZ47-125/3P, D63, 1000sets,

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Delixi Electric Easy Electric

DZ47-125 Moulded Case Circuit Breaker User Manual



Compiled Standard: GB/T 14048.2 IEC 60947-2
Please carefully read the User Manual before the installation and use of the products, keep it properly as backup.

DZ47-125 Moulded Case Circuit User Manual

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;
- Prohibit to test the product by means of short circuit;

⚠️ Attention:

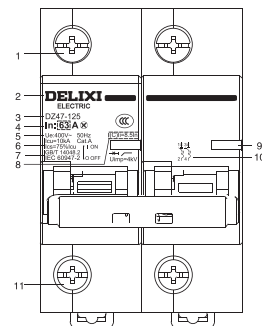
- The installation, repair and maintenance shall be implemented by qualified persons;
- Various characteristics of the product have been set before delivery and the product cannot be disassembled or modulated at will;
- Confirm whether the rated voltage, rated current, frequency and characteristics of 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;
- Stop using and contact the supplier immediately in case of any damage or abnormal sound during unpacking;
- This product is not suitable for special occasions such as frequent start-up of motors, electric heating equipment,

capacitive cabinets, high sensitivity, high-capacitive loads and high-temperature environments.

- Make industrial waste treatment for product scrap. Thank you for your cooperation;

Learn about DZ47-125 Moulded Case Circuit Breaker

- Panel Introduction



Note:

1. Power supply terminal
2. Company trademark
3. Product model
4. Rated current: 63, 80, 100, 125
5. Rated voltage: 230V (1P)/400V
6. Rated breaking capacity
7. Standards of conformity
8. Setting current:
 - (C)Ii=8.5In (for power distribution protection),
 - (D)Ii=12In (for motor protection)
9. Contact indication
10. Wiring diagram
11. Load end

Conditions of normal use, installation and transportation

- Normal use

- (1) The ambient temperature ranges between -20°C and +60°C with average value in 24h not exceeding +35°C;
- (2) Altitude: ≤2000m;
- (3) The atmospheric relative humidity does not exceed 50% when the highest ambient temperature is +40°C. Higher relative humidity is allowed under lower temperature, e.g. up to 90% at 20°C. Protective measures shall be taken for condensation occasionally due to temperature change.

● Installation conditions

- (1) The external magnetic field near the installation site of the circuit breaker shall not exceed 5 times of the geomagnetic field in any direction;
- (2) The installation site shall be vertical, with inclination at all directions not exceeding 10°;
- (3) It shall be installed in places free from shock and vibration, or rain and snow either;
- (4) Pollution class: 2 or 3;
- (5) Installation category: II, III
- (6) Protection level: IP20 (IP40 for installation in the distribution box, distribution cabinet or box).

● Conditions of normal storage and transportation

- (1) Temperature: -40°C~+70°C;
- (2) Relative humidity: ≤95%;
- (3) The product shall be transported gently without upside down or strong collision.

Main technical performance parameters

- See Table 1 for main technical parameters of the circuit breaker

Table 1 Main Technical Parameters

Setting current	Rated current In A	Number of poles	Rated voltage Ue V	Rated breaking capacity Icn A
(C)Ii=8.5In (for power distribution protection)	63, 80, 100, 125	1, 2, 3, 4	230/400	10000 (Ics=75%Icu)
(D)Ii=12In (for motor protection)	63, 80, 100, 125	1, 2, 3, 4	230/400	400

- See table 2 for overcurrent protection characteristics of the circuit breaker

Table 2 Overcurrent protection characteristics of the circuit breaker

Tripping type	Test current A	Initial state	Test time	Expected result	Remark	Reference temperature
C, D	1.05In	Cold	t<1h(In≤63A) t<2h(In>63A)	No tripping	---	+30 ^{±5} °C
C, D	1.3In	Immediately after the former test	t<1h(In≤63A) t<2h(In>63A)	Tripping	Current increases to the specified value in 5s	
C, D	2.55In	Cold	1s<t<120s	Tripping	---	
C	8.5In×80%	Cold	t<0.2s	No tripping	Closing auxiliary switch connects to power supply	
D	12In×80%	Cold	t<0.2s	No tripping		
C	8.5In×120%	Cold	t<0.2s	Tripping		
D	12In×120%	Cold	t<0.2s	Tripping		

- See figure 1 and 2 for protection characteristics curve of the circuit breaker.

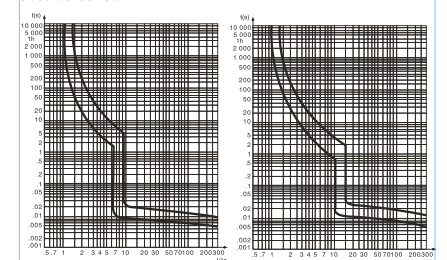


Figure 1: C type tripping curve

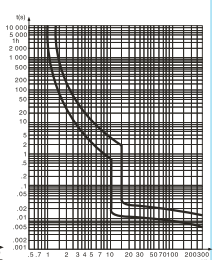


Figure 2: D type tripping curve