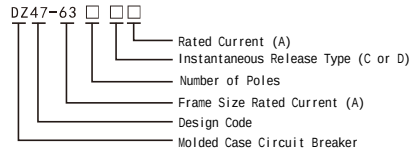


I Scope of Application

DZ47 Miniature Circuit Breaker (hereinafter referred to as "circuit breaker") is suitable for overload and short-circuit protection in circuits with a rated voltage of 230V or 400V, a frequency of 50Hz, and a rated current up to 63A. It can also be used for infrequent circuit switching under normal conditions. The circuit breaker is applicable to various places such as industrial, commercial, high-rise, and residential buildings. This product complies with the GB/T 10963.1 standard.

II Model and Its Meaning



III Normal Operating and Installation Conditions

3.1 Ambient temperature: -25°C ~ +60°C. When the ambient temperature deviates from the reference temperature of 30°C, refer to Table 1 for parameter correction.

3.2 Altitude of the installation site: not exceeding 2000m.

3.3 Installation method: Installed on a TH35-7.5mm DIN rail.

3.4 Has an isolation function.

Table 1

ambient temperature	-30	-20	-10	0	10	20	30	40	50	60
correction factor	1.30	1.25	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

1

IV Technical Parameters

4.1 Main Specifications

4.1.1 Classified by Rated Current I_n : 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A

4.1.2 Classified by Type of Instantaneous Release: Type C (5~10) I_n ; Type D (10~20) I_n .

4.1.3 Classified by Number of Poles:

1P: Single-pole circuit breaker;
2P: Circuit breaker with two protective poles;
3P: Circuit breaker with three protective poles;
4P: Circuit breaker with four protective poles;

4.2 Main Technical Parameters

4.2.1 Rated Short-Circuit Capacity (See Table 2)

Table 2

Rated Current	Number of Poles	Rated Voltage	Rated Short-Circuit Current (A)	Operating Short-Circuit Current (A)
1~63A	1	230/400	6000	6000
	2, 3, 4	400		

4.2.2 Mechanical and Electrical Life (See Table 3)

Table 3

Category	Times	Operating Frequency (times/hour)	Rated Current (A)
Electrical Life	10000	240	1~32
		120	40~63
Mechanical Life	20000	240	1~63

2

4.2.3 Wiring

Suitable for wire connections with a cross-sectional area below 25mm² (see Table 4), using screw compression wiring with a torque of 2N·m.

Table 4

Rated Current I_n (A)	Copper Conductor Nominal Cross-Sectional Area (mm ²)	Rated Current I_n (A)	Copper Conductor Nominal Cross-Sectional Area (mm ²)
1~6	1	32	6
10	1.5	40, 50	10
16, 20	2.5	63	16
25	4		

4.2.4 Overcurrent Protection Characteristics (at 30°C~35°C) (See Table 5)

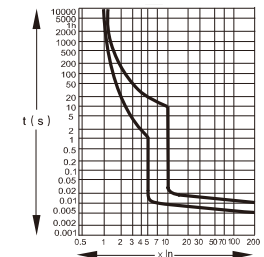
Table 5

Serial No.	Circuit Breaker Rated Current (A)	Initial State	Test Current	Tripping Time	Expected Result	Remarks
1	1~63	Cold State	1.13 I_n	$t \leq 1h$	No Tripping	
2	1~63	Hot State (After 10min Preheating at 30°C~35°C)	1.45 I_n	$t < 1h$	Tripping	Current rises to the specified value within 5s
3	1~63	Cold State	2.25 I_n	$1s < t < 60s$	Tripping	
		Cold State	2.25 I_n	$1s < t < 120s$	Tripping	
4	1~63	Cold State	5 I_n	$t \leq 0.1s$	No Tripping	C Type
			10 I_n	$t < 0.1s$	Tripping	
			10 I_n	$t \leq 0.1s$	No Tripping	D Type
			20 I_n	$t < 0.1s$	Tripping	

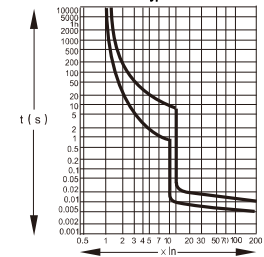
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4.2.5 Tripping Characteristic Curves

Type C

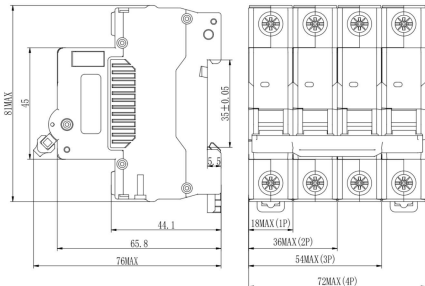


Type D



4

V Outline Dimensions



VI Ordering Instructions

When placing an order, the following must be specified:

- 6.1 Model of the miniature circuit breaker;
- 6.2 Number of poles;
- 6.3 Type of instantaneous release;
- 6.4 Rated current of the miniature circuit breaker;
- 6.5 Quantity;
- 6.6 Order example: DZ47-63 3P C63, 100 sets.

5

6



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National High-Tech Enterprise

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使用说明书
Products Instructions

DZ47

Series Miniature Circuit Breakers

Thank you very much for using our company's residual current circuit breaker. Please read the instruction manual before use!

27A007SO