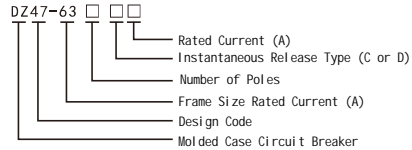


Scope of Application

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.

Model and Its Meaning



Normal Operating and Installation Conditions

- 3.1 Ambient temperature: $-25 \sim +60$. When the ambient temperature deviates from the reference temperature of 30, 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

Rated Current (A)	-30	-20	-10	0	10	20	30	40	50	60
Current correction factor	1.30	1.25	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

1

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 ($5 \sim 10$) I_n ; Type D ($10 \sim 20$) 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)

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)

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 25mm^2 (see Table 4), using screw compression wiring with a torque of $2\text{N}\cdot\text{m}$.

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		

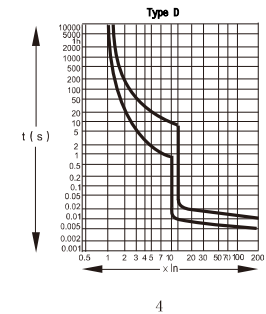
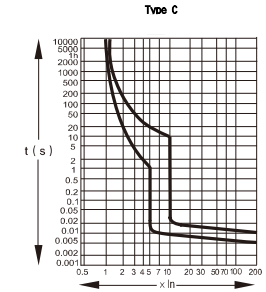
4.2.4 Overcurrent Protection Characteristics (at 30~35°C) (See Table 5)

Table 5

Serial No.	Circuit Breaker Rated Current (A)	Initial State	Test Current	Tripping Time	Expected Result	Remarks	
1	1~63	Cold State	$1.13I_n$	$t \leq 1\text{h}$	No Tripping		
2	1~63	Hot State (After 30min at 30~35°C)	$1.45I_n$	$t < 1\text{h}$	Tripping	Current rises to the specified value stably within 6s	
3	1~63	Cold State	$I_n \leq 32$	$2.25I_n$	$1\text{s} < t < 60\text{s}$	Tripping	
			$I_n > 32$	$2.25I_n$	$1\text{s} < t < 120\text{s}$	Tripping	
4	1~63	Cold State	$5I_n$	$t \leq 0.1\text{s}$	No Tripping	C Type	
				$t < 0.1\text{s}$	Tripping		
				$t \leq 0.1\text{s}$	No Tripping	D Type	
				$t < 0.1\text{s}$	Tripping		

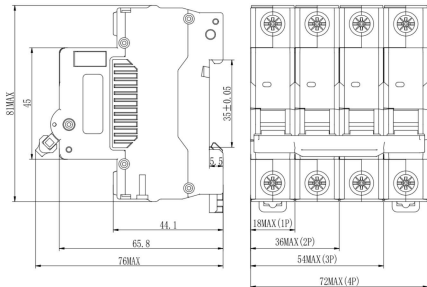
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4.2.5 Tripping Characteristic Curves



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.

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C-Lin

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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!

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