

NanQue®



DZ47-125(B)

DC circuit breaker

DC12~120V

Series

Seiko manufacturing, quality can be seen



Product Introduction

DZ47-125 (B) DC circuit breaker, specially used for electric vehicles, motorcycles, lighting circuits, switching power supplies, UPS power supplies, security monitoring circuits and other places, unipolar rated voltage DC 12V-120V, rated current up to 63A It has overload and short-circuit protection in the line, and can also be used for infrequent on-off electrical devices under normal conditions.

This product complies with GB10963.2 and IEC60947-2 standards.

Model Meaning

DZ47-125(B)-1P-B10A-T

Model

Poles

Rated current

B: B-curve
C: C-curve
D: D-curve

Blank: white shell
T: transparent shell

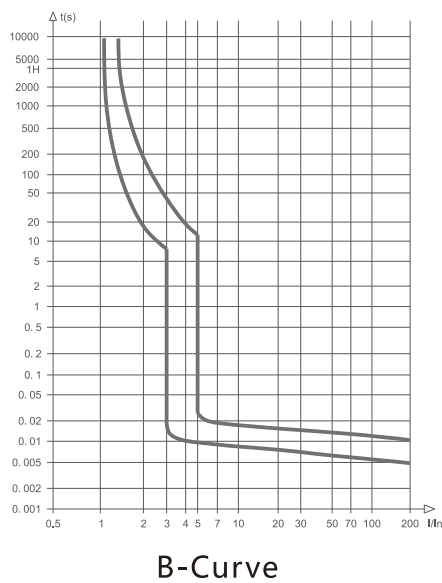
Technical Parameters

- Short circuit protection
- Overload protection (overcurrent protection)
- Isolation function
- Auxiliary control function
- Rated current I_n : 80A, 100A, 125A, 150A
- Rated working voltage U: DC12~120V, DC12V/DC24V/DC36V/DC48V/DC60V/DC72V/DC96V/DC110V etc;
- Rated short-circuit breaking capacity I_{cn} : 6kA;
- Rated impulse withstand voltage U_{imp} (1.2/50): 6KV;
- Number of poles: 1P single pole, 2P double pole;
- Trip form: thermal magnetic trip;
- Tripping characteristics: B type ($3I_n \sim 5I_n$);
- Current limiting level: 3;
- Ambient working temperature: $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$;
- IP grade: Ip20;
- Pollution level: 2;
- Installation method:
- Installation: where there is no significant vibration and shock, tunnel wiring Terminal, can be easily installed on TH35-7.5 type DIN standard rail;



Installation torque: 80~125A: 3.5N;
Mechanical and electrical life:
a. Electrical life: not less than 8000 times;
b. Mechanical life: not less than 10,000 times;
Compliant with the standard: GB10963.2/IEC60947-2;
Compliance certification: CCC, CE;
Application place:
It is used in DC power power system, electric propulsion system, photovoltaic power system (photovoltaic combiner box) and other places.

Tripping Characteristic Curve





Temperature Current Correction Factor

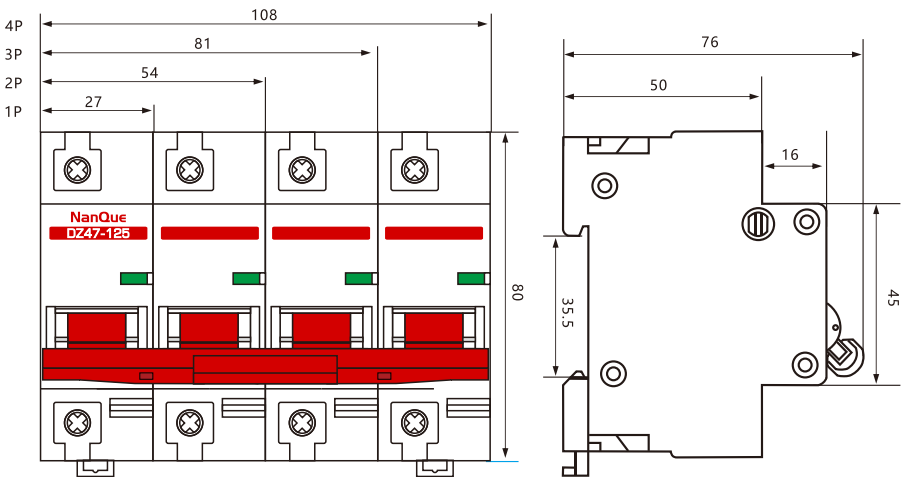
Temperature°C	-30	-20	-10	0	10	20	30	40	50	60	70
Current factor	1.3	1.25	1.2	1.15	1.1	1.05	1	0.95	0.9	0.85	0.8



Product Selection

Model	Poles	Current	Shell
DZ47-63(B)	1P  2P 	80A, 100A, 125A, 150A	White (default) Transparent (customized) Other colors (mass customization)

Product Size



Connecting Cables

Current	Recommended cable cross-section	Maximum wiring capacity
80~125A	25mm ²	50mm ² (Hard Cable) 35mm ² (Soft Cable)

Ordering Instructions

- When ordering, the user should indicate the product model, tripping type, rated current, Rated Voltage, number of poles, accessories and quantity of the circuit breaker.
- Example: DZ47-125(B) circuit breaker 2P B125A DC12~120V, 200 pieces.
- Users have special requirements, such as custom printing, which can be negotiated separately.

Appendix I

Product selection datasheet



1P



2P

Product Model	Poles	Voltage	Current	Order Code	Custom ized
DZ47-125(B)	1P	DC12-120V	80A	NQPD-DZ47125B1PDCL2001	No
	1P	DC12-120V	100A	NQPD-DZ47125B1PDCL2002	No
	1P	DC12-120V	125A	NQPD-DZ47125B1PDCL2003	No
	1P	DC12-120V	150A	NQPD-DZ47125B1PDCL2004	No
	2P	DC12-120V	80A	NQPD-DZ47125B2PDCL2001	No
	2P	DC12-120V	100A	NQPD-DZ47125B2PDCL2002	No
	2P	DC12-120V	125A	NQPD-DZ47125B2PDCL2003	No
	2P	DC12-120V	150A	NQPD-DZ47125B2PDCL2004	No

Illustrate:

- 1, "Customized products" (gray marked), cannot be ordered directly, you need to determine the quantity, price and order cycle before ordering,
- 2, Customized products does not support returns and exchanges.