

MDB1Z-63 DC Miniature Circuit Breaker



Overview

MDB1Z-63 series DC miniature circuit breaker (hereinafter referred to as circuit breaker) is suitable for rated current 63A and below, DC rated voltage 125V and 500V line. It is used for overload and short circuit protection of DC power distribution system facilities and electrical equipment, and can be widely used in electric power, post and telecommunications, transportation, industrial and mining enterprises and other industries. The product complies with the GB10963.2 and IEC60898-2 standards.

Installation method

MDB1Z-63 DC circuit breaker is composed of outer casing, operating mechanism, thermal release, electromagnetic tripper contact system, arc extinguishing system, etc. It has overload and short circuit protection. The unique design structure and powerful permanent magnet arc extinguishing system make the product have a short circuit capacity of 4.5kA and a mechanical life of more than 20,000 times. The appearance of the product is beautiful. The mounting rail is TH35-7.5 standard steel mounting rail and has the following features: handle Designed on the front side of the front face, the operation is safe and strong, and the hand feels comfortable. When wiring, be sure to pay attention to the "+, -" polarity. The power supply goes in and out, conforms to the characteristics of the power supply line, and is easy to install and saves the line. The three-pole circuit breaker for the 1000V circuit is connected to the two-pole series side of the positive circuit.



Main parameters and technical performance

Shell frame constant current I _{mm} (A)	Number of poles (P)	Width/bit (18mm multiple)	Rated voltage (V)	Rated current I _n (A)	Rated ultimate short circuit capability		Instantaneous release type
					Breaking current I _{cu} (A)	Time constant T (ms)	
63	1	1	48V DC~ 250V DC	1~63	3000 4000 6000	10	B、C
	2	2	250V DC~ 600V DC				
	4	4	600V DC~ 1000V DC				



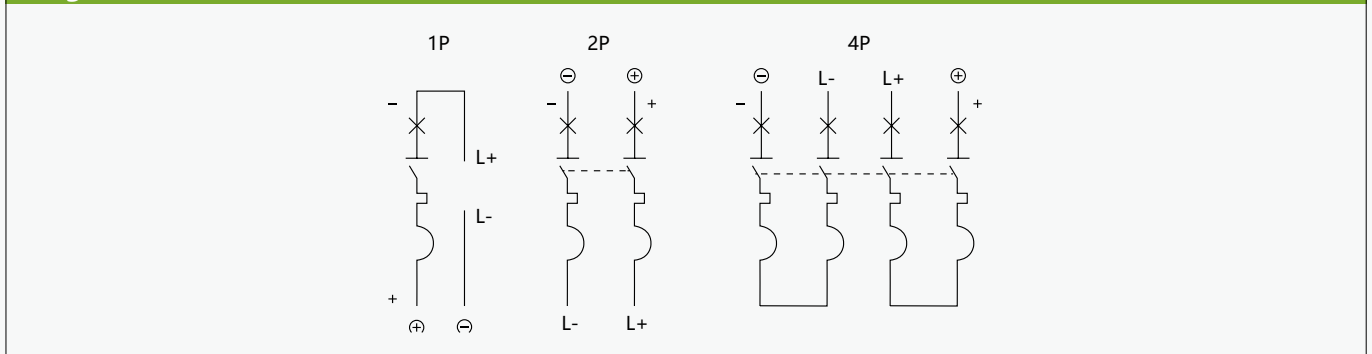
Standard time-current band

Test	Instantaneous release type	DC test current	Starting state	Tripping or non-tripping time limit	Expected results	Remarks
a	B, C	1.13In	Cold state	$t \geq 1h(In \leq 63A)$	No tripping	/
b	B, C	1.45In	Followed by a test	$t < 1h(In \leq 63A)$	Tripping	The current rises steadily within 5S
c	B, C	2.55In	Cold state	$1s < t < 60s(In \leq 63A)$ $1s < t < 60s(In \leq 63A)$	Tripping	/

Standard time-current band

Test	Instantaneous release type	DC test current	Starting state	Tripping or non-tripping time limit	Expected results	Remarks
d	B, C	4In	Cold state	$0.1s < t < 45s(In \leq 32A)$ $0.1s < t < 90s(In \leq 32A)$	Tripping	Close the auxiliary switch to turn on the power
		7In		$0.1s < t < 15s(In \leq 32A)$ $0.1s < t < 30s(In \leq 32A)$		
e	B, C	7In	Cold state	$t < 0.1s$	Tripping	
		15In				

Diagram



Dimensions(mm)

