



MDB1Z-63

# MDB1Z-63 MDB1Z(NC)-125 DC MCB



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## Overview

DC Miniature Circuit Breaker (DC MCB) is an electrical protection device specially designed for DC circuits. It protects circuits and equipment from damage by quickly cutting off fault currents (such as overload or short circuit) in the circuit, and improves the safety and reliability of the system. It has excellent durability and supports frequent operation and long-term operation.

## Technical Specification

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Pole	1P	2P	3P	4P
Rated Working Voltage $U_e$	250V DC	600V DC	800V DC	1000V DC
Frame Current	63A			
Rated Current $I_n$	63A, 50A, 40A, 32A, 25A, 20A, 16A, 10A			
Rated Insulation Voltage $U_i$	1000V			
Rated Impulse Withstand Voltage $U_{imp}$	6kV			
Tripping Characteristics	B/C			
Tripping Type	Thermal Magnetic			
Rated Ultimate Short-Circuit Breaking Capacity $I_{cu}$	6kA			
Rated Service Short-Circuit Interrupting Capacity $I_{cs}$	6kA			
Electrical Life	Actual	> 1500 Cycles		
	Standard	300 Cycles		
Mechanical Life	Actual	>10000 Cycles		
	Standard	9700 Cycles		
Overvoltage Category	III			
Pollution Degree	3			
Ingress Protection	IP40; Wiring port IP20			
Resistance to humidity and heat	Class 2			
Relative Humidity	≤ 95 %			
Vibration	acc. to IEC60068-2-6			
Shocks	acc. to IEC60068-2-27			
Terminal capacity	2.5~35mm <sup>2</sup>			
Fastening Torque of Terminals	2.0~3.5 Nm			
Ambient Temperature	-30°C~70°C			
Storage Temperature	-40°C~85°C			
Installation Method	DIN			
Elevation	≤2000m			
Dimension	Width:72mm			
	High: 87.5mm			
	Depth: 81mm			
Weight	0.12kg/Pole			