

Product Overview

■ Main functions

Short circuit protection, overload protection, and disconnection functions

■ Applied standards

GB/T 14048.2, IEC60947-2

■ Certification compliance

** RoHS compliant products have their own separate material number, and attention is paid for model selection when ordering.

* RoHS-compliant products are CE certified only.



■ Main features

Rated operating voltage(V)	1P,1P+N: 230/240AC, 80DC
	2P,3P,3P+N,4P: 400/415 AC (2P: 125 DC)
Rated current (A)	63-125
Rated frequency (Hz)	50/60
Number of poles	1P,1P+N,2P,3P,3P+N,4P
Breaking capacity (kA)	10

Product Selection

Product name	Number of poles	Trip type	Rated current
CDB6i-125	1	C	6
	↓	↓	↓
	1: 1P 2: 2P 3: 3P 4: 4P 5: 1P+N 6: 3P+N	C: C type D: D type	63: 63A 80: 80A 100: 100A 125: 125A

Notes:

- Those listed in the above table are the non-RoHS material selection rules; for RoHS compliant products, the model number is changed to CDB6R-125 only;
- The product can be assembled the following accessories: OF, SD, MO, MV, MN, MVMN

Technical Parameters

Electrical characteristics

Rated insulation voltage U_i	(V)	500
Rated operating voltage U_e	(V)	1P, 1P+N: 230/240 AC, 80 DC
		2P, 3P, 3P+N, 4P: 400/415 AC (2P: 125 DC)
Rated short circuit capacity I_{cn} (IEC/EN60898-1)	(kA)	10
Rated impulse withstand voltage U_{imp} (1.2/50)	(kV)	4
Dielectric test voltage		2kV (50Hz, 1 minute)

Disconnection function	Yes	
Pollution level	2	
Trip type	Thermal magnetic trip	
Thermal magnetic trip characteristics	C type curve (5In~10In)	■
	D type curve (10In~14In)	■
Electrical and mechanical accessories	■	

Mechanical characteristics

Handle	Red	
Contact indicator	To indicate the ON/OFF state of product through the red and green colors	
Mechanical durability Times	20000	
Electrical durability Times	6000 times (In≤100A) 4000 times (In>100A)	
Protection grade	Installed in a distribution box	IP40
	Installed directly	IP20
Mechanical shock resistance	30g, 3 shocks, duration 11 ms (in places without significant vibration and shock)	

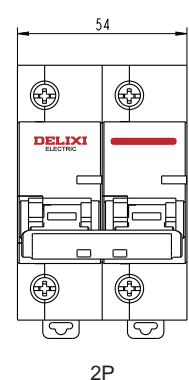
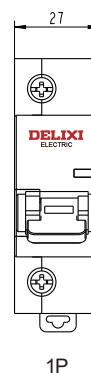
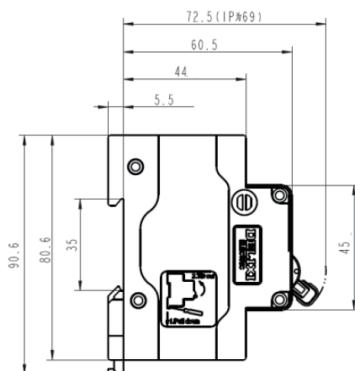
Vibration resistance (IEC/EN 60068-2-6)	) In places without significant vibration and shock	
Resistance to damp and heat (IEC 60068-2)	Damp and heat °C/RH	Class 2, 28 cycles When the temperature is 55°C, the relative humidity is 90%-96% When the temperature is 25°C, the relative humidity is 95%-100%
Reference ambient temperature	°C	30°C
Ambient working temperature (mean daily temperature $\leq +35^\circ\text{C}$)	°C	-35°C ~ +70°C
Storage temperature	°C	-40°C ~ +85°C

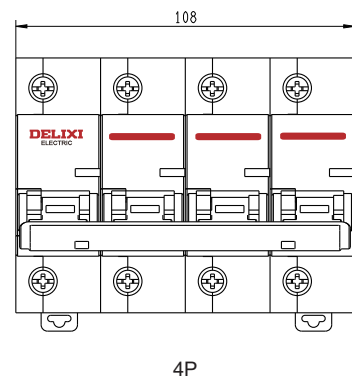
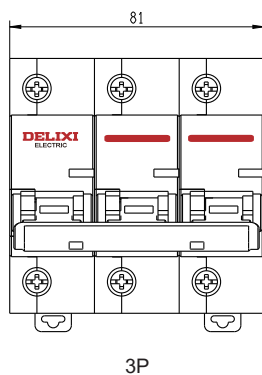
Installation characteristics

Terminal block form	U-shaped terminal block
Max. wiring capacity	Current grade 63-125: 50 mm ²
Max. limit torque	Current grade 63-125: 3.5 N.m

Tools	Cross screwdriver or slotted screwdriver
Installation	Installed on the standard DIN rail (35mm)
Inlet method	Both top inlet and bottom inlet available

Outline and Installation Dimensions





■ Wiring diagram

