CDB6iTC Standard Circuit Breaker

Product Overview



■ Main functions

Short circuit protection, overload protection, and disconnection functions

■ Applied standards

GB/T14048.2

■ Certification compliance

CCC CE RoHS

■ Main features

Rated operating voltage (V)	1P：230/400 AC
	1P+N：230 AC
	2P, 3P, 3P+N, 4P：400 AC
	1P：60V DC
	2P：125V DC

Rated current (A)	1-63
Rated frequency (Hz)	50 (only for AC)
Number of poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Breaking capacity (kA)	6

Product Selection

Product name	Number of poles	Trip type	Rated current
CDB6iTC	1	C	6
	1：1P 2：2P 3：3P 4：4P 5：1P+N 6：3P+N	B: B type C: C type D: D type	1：1A 2：2A 3：3A 4：4A 5：5A 6：6A 8：8A 10：10A 13：13A 16：16A 20：20A 25：25A 32：32A 40：40A 50：50A 63：63A

Notes:
1. The materials of this model are all RoHS compliant;
2. The product can be assembled with accessories OF, SD, MSN, MV, MN, MVMN, FF, FS, MO (with power), and MOWY (without power).

Technical Parameters

■ Electrical characteristics

Rated insulation voltage Ui (V)		500
Max. operating voltage Ubmax	1P,1P+N (V)	230/400 AC
	2P, 3P, 3P+N, 4P (V)	400 AC
	1P (V)	60DC
	2P (V)	125DC
Rated short circuit capacity Icn (IEC/EN60898) (kA)		6
Rated impulse withstand voltage Uimp (1.2/50) (kV)		4
Dielectric test voltage (kV)		2kV (50/60Hz, 1 minute)

Usage category		A
Disconnection function		Yes
Pollution level		2
Trip type		Thermal magnetic trip
Thermal magnetic trip characteristics	Ii (B) type curve 4In(AC), 5In(DC)	■
	Ii (C) type curve 8In(AC), 10In(DC)	■
	Ii (D) type curve 12In(AC), 15In(DC)	■
Electrical and mechanical accessories		■

■ Mechanical characteristics

Handle		Red, mark indicates the ON-OFF position
Mechanical durability	Times	20000
Electrical durability	Times	10000
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 ≤ +35°C)	°C	-35°C ~ +70°C
Storage temperature	°C	-40°C ~ +85°C

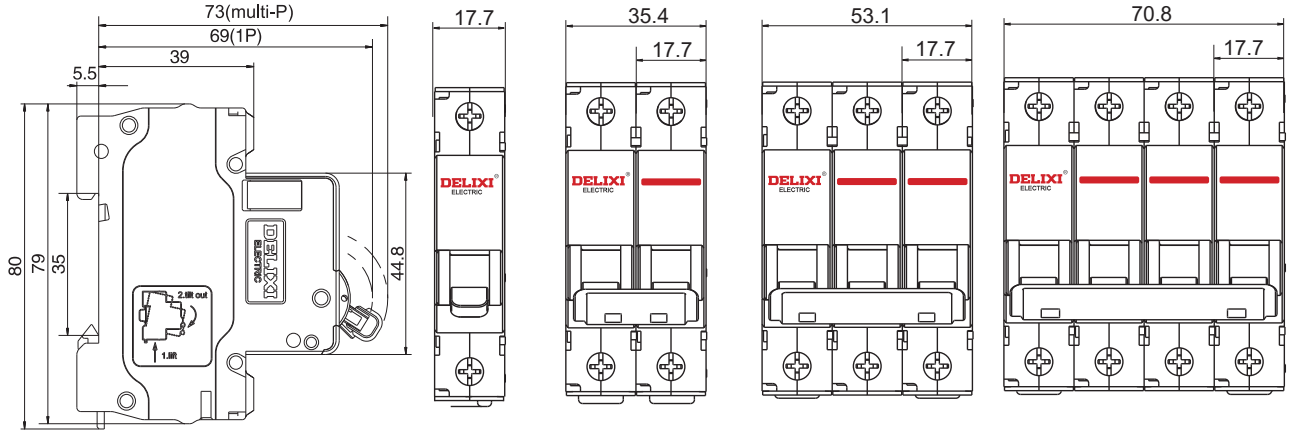
■ Installation characteristics

Terminal block form	U-shaped terminal block
Max. wiring capacity	Current grade 1-63(A): 25 mm^2
Max. limit torque	Current grade 1-63(A): 2.5 N.m

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

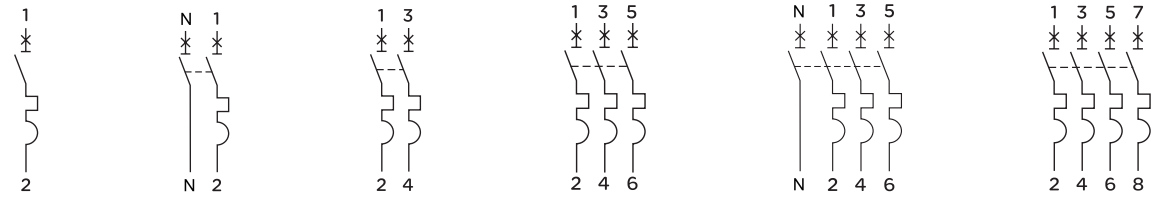
Outline and Installation Dimensions

■ Dimensional drawing



1P Left View　　1P　　1P+N，2P　　3P　　3P+N，4P

■ Wiring diagram



1P　　1P+N　　2P　　3P　　3P+N　　4P