

Product Overview

■ Main functions

Short circuit protection, overload protection, and disconnection functions

■ Applied standards

GB/T 16917.1, IEC61009-1

■ 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)	230AC	Breaking capacity (kA)	4.5, 6
Rated current (A)	6-40	Rated residual operating current (Ma)	30
Rated frequency (Hz)	50	Leakage operating time	t≤0.1s
Number of poles	1P+N	Overvoltage protection function (V)	(280±14) AC

Product Selection

Product name	Breaking capacity	Trip type	Rated current	Residual current	Other functions
CDB6PLEi	N ↓ Default: 4.5kA N:6kA	C ↓ *C: C type D: D type	6 ↓ 6: 6A 10: 10A 16: 16A 20: 20A 25: 25A 32: 32A 40: 40A	↓ Default: 30mA	↓ Default: Without overvoltage protection G: With overvoltage protection

Notes:

- Specifications marked with * have overvoltage functions.
- Those listed in the above table are the non-RoHS material selection rules; for RoHS compliant products, the model number is changed to CDB6PLER only;
- Breaking capacity 6kA specification is available only for RoHS materials rather than non-RoHS materials.
- The product can be assembled the following accessories: OF, SD, MSN, MV, MN, MVMN, FF, FS, MO (with power), and MOWY (without power)

Technical Parameters

Electrical characteristics

Rated insulation voltage U_i	(V)	500
Rated voltage U_e (V)	(V)	230
Rated short circuit capacity I_{cn} (IEC/EN60898-1)	(kA)	4.5, 6
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

Trip indicator	There is a residual current operation trip indicator for CDB6LEI. When the reset button pops up, this indicates an electric leakage trip	
Manual control	Overcurrent fault	To power on the circuit breaker via handle
	Electric leakage fault	Reset the residual current operating device, and then circuit breaker
Handle	Red, mark indicates the ON-OFF position	
Mechanical durability	Times	20000
Electrical durability	Times	12000
Protection grade	Installed in a distribution box	IP40
	Installed directly	IP20

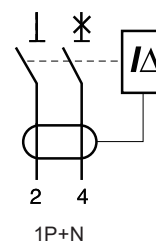
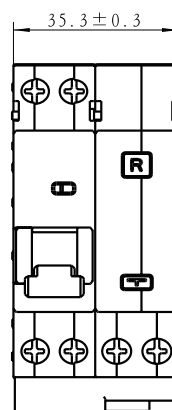
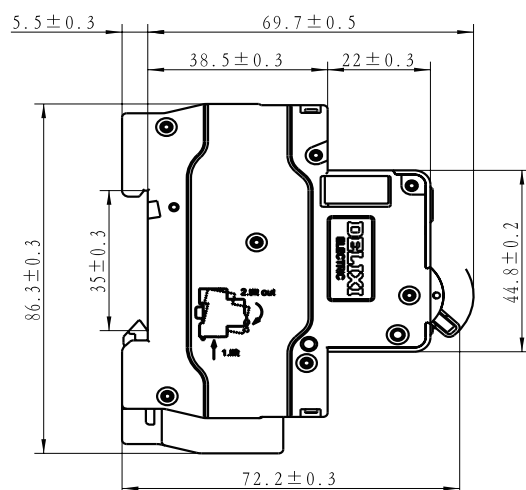
Mechanical shock resistance	30g, 3 shocks, duration 11 ms (in places without significant vibration and shock)	
Vibration resistance (IEC/EN 60068-2-6)	In places without significant vibration and shock	
Resistance to damp and heat (IEC 60068-2)	Damp and heat °C /RH	Class 2, 28 cycles When the temperature 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 6-40: 10 mm ²
Max. ultimate torque	Current grade 6-40: 2 N.m

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

Outline and Installation Dimensions



Wiring diagram