

Product Overview

■ Main functions

Short circuit protection, overload protection, and disconnection functions

■ Applied standards

GB/T 10963.1, IEC/EN60898-1

■ 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	Number of poles	1P+N
Rated current (A)	6,10,16,20,25,32,40	Breaking capacity (kA)	4.5,6
Rated frequency (Hz)	50		

Product Selection

Product model	Breaking capacity	Trip type	Rated current
CDB6Pi	N	C	6
	↓	↓	↓
	Default: 4.5kA N:6kA	C: C type D: D type	6: 6A 10: 10A 16: 16A 20: 20A 25: 25A 32: 32A 40: 40A

Notes:

- Those listed in the above table are the non-RoHS material selection rules; for RoHS compliant products, the model number is changed to CDB6PR 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 insulation voltage U_e	(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

Handle		Red, mark indicates 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)

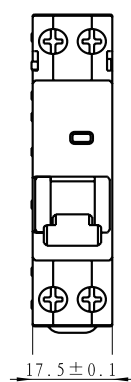
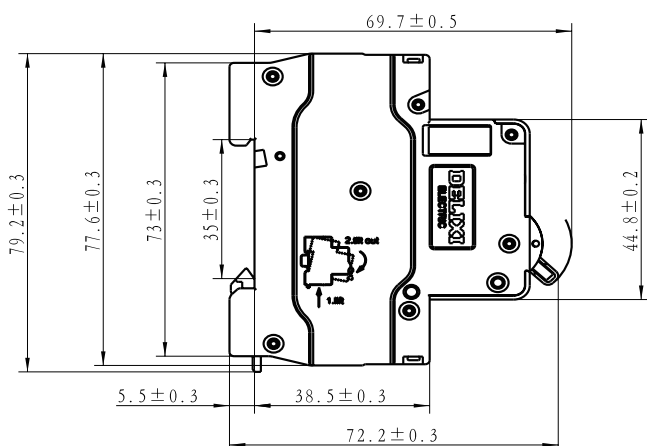
Vibration resistance (IEC/EN 60068-2-6)		In places without significant vibration and shock
Resistance to damp and heat (IEC 60068-2)	Damp and heat °C/RH	Class 2, 28 cycles When the temperature is 55°C, the relative humidity is 90%-96% When the temperature is 25°C, the relative humidity is 95%-100%
Reference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

Outline and Installation Dimensions



Wiring diagram

