

Product Overview

Main functions

Short circuit protection, overload protection, electric leakage protection, disconnection function, and overvoltage protection (only for overvoltage type product)

Applied standards

GB/T 16917.1 IEC61009-1

Certification compliance



Note: CE certification is available only for 2P, 3P, and 4P products



Main features

Rated operating voltage(V)	1P+N,2P: 230 AC	Trip curve	B, C, and D types
	3P,3P+N,4P: 400 AC		
Rated current (A)	General type: 6~63	Rated residual operating current (mA)	General type: 10(1P+N, 2P),30,50,75,100,300
	S type (delay type): 32~63		S type (delay type): 50,75,100,300
Rated frequency (Hz)	50/60	Leakage trip time	General type: $t \leq 0.1S$
			S type (delay type): $0.13S \leq t \leq 0.5S$
Number of poles	1P+N,2P,3P,3P+N,4P	Leakage protection type	A and AC types
Breaking capacity (kA)	6, 10	Overvoltage protection function (V)	(280±14) VAC (only suitable for 1P+N, 2P)

Product Features

- Small size, space saving: width integral modularization, with the size decreased by 30%~50%, saving cabinet space and cost
- Large hole wiring: with 25mm² large hole wiring, more convenient wiring connection is realized
- Complete specifications: added A-type electric leakage protection, 10kA breaking capacity, leakage delay type and bottom inlet specifications; more comprehensive protection and more flexible wiring
- Quick closing + discharge arc baffle design: longer service life, more reliable ON/OFF operation

Product Selection

Product name	Breaking capacity	Inlet method	Number of poles	Trip type	Rated current	Residual current	Other functions
CDB6LESi	□	□	1	C	6	□	□
CDB6LESi	Default: 6kA H: 10kA	Default: Top inlet	1: 1P+N 2: 2P 3: 3P 4: 4P 6: 3P+N	B: B type C: C type D: D type	6: 6A 10: 10A 16: 16A 20: 20A 25: 25A 32: 32A 40: 40A 50: 50A 63: 63A	Default: 30mA R10: 10mA R50: 50mA R75: 75mA R100: 100mA R300: 300mA	Default: AC type electric leakage protection, without overvoltage protection A: A type electric leakage protection, without overvoltage protection G: AC type electric leakage protection, without overvoltage protection S: Delay
CDB6LESi		X: Bottom inlet	1: 1P+N 2: 2P				

Notes:

- Those listed in the above table are the model selection rules for non-RoHS material; for RoHS compliant products, the model number is changed to CDB6LESR;
- The product can be assembled with accessories OF, SD, MSN, MV, MN, MVMN, FF, FS, MO (with power), and MOWY (without power).

New 6
SERIES

Technical Parameters

Electrical characteristics

Rated insulation voltage U_i	(V)	500
Max. operating voltage $U_{e,max}$	(V)	1P+N, 2P: 230 AC 3P, 3P+N, 4P: 400 AC
Rated short circuit capacity I_{cn}	(kA)	6, 10
Rated impulse withstand voltage	(kV)	4
Dielectric test voltage		2kV (50/60Hz, 1 minute)
Disconnection function		Yes (1P+N, 3P+N: No)

Leakage protection type	A, AC types
Pollution level	2
Trip type	Thermal magnetic trip
Thermal magnetic trip characteristics	B type curve (3In~5In) 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 CDB6LESi. When the reset button pops up, this indicates an electric leakage trip
Handle	Red
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)	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

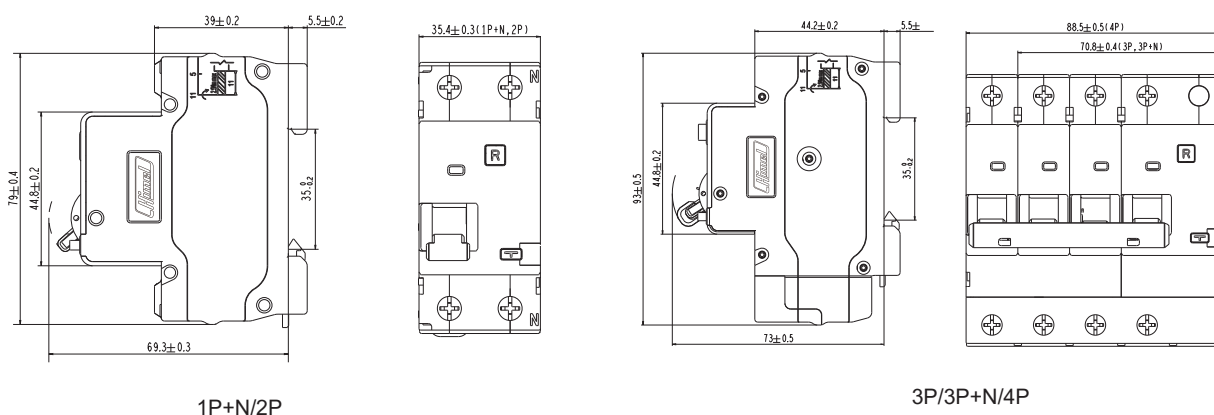
Installation characteristics

Terminal block form	U-shaped terminal block
Max. wiring capacity	25mm ²
Max. ultimate torque	2.5 N.m
Tools	Cross screwdriver or slotted screwdriver

Installation	Installed on the standard DIN rail (35mm)
Inlet method	Top inlet (for any number of poles) Bottom inlet (only for 1P+N/2P products)

Outline and Installation Dimensions

Dimensional drawing



Wiring diagram

