

Product Overview

Main functions

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

Applied standards

GB/T16917.1, 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)	1P+N,2P: 230/240AC
	3P,3P+N,4P: 400/415AC
Rated current (A)	6,10,16,20,25,32,40,50,63
Rated frequency (Hz)	50/60
Number of poles	1P+N,2P,3P,3P+N,4P
Breaking capacity (kA)	6
Trip curve	C,D

Rated residual operating current (mA)	30,50,75,100,300
Leakage protection type	AC type, A type (I Δ n=30mA specification provided only)
General type leakage trip time	≤0.1S
S type type leakage trip time (I Δ n)	0.13S≤t≤0.5S ((Only suitable for 40~63A, I Δ n=100mA product; S type has A type protection)
Overvoltage protection function (V)	(280±14) AC (Only suitable for 1P+N, 2P, and C type product, I Δ n=30mA)

Product Selection

Product name	Number of poles	Trip type	Rated current	Residual current	Other functions
CDB6LEi	1	C	6		G
	*1: 1P+N	C: C type	6: 6A	Default: 30mA	Default: AC type electric
	*2: 2P	D: D type	10: 10A	R50: 50mA	leakage protection,
	3: 3P		16: 16A	R75: 75mA	without overvoltage
	4: 4P		20: 20A	R100: 100mA	protection
	6: 3P+N		25: 25A	R300: 300mA	G: Overvoltage
			32: 32A		protection
			40: 40A		
			50: 50A		
			63: 63A		

Notes:

1. Specification marked with * only has overvoltage functions.
2. Those listed in the above table are the model selection rules for non-RoHS material; for RoHS compliant products, the model number is simply changed to CDB6R-80;
3. 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
Rated operating voltage U_e (V)	(V)	1P+N, 2P: 230/240 AC 3P, 3P+N, 4P: 400/415 AC
Rated short circuit capacity I_{cn} (IEC/EN60898)	(kA)	6
Rated impulse withstand voltage U_{imp} (1.2/50)	(kV)	4
Dielectric test voltage		2kV (50Hz, 1 minute)
Disconnection function		Yes (1P+N, 3P+N: No)

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 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 5 °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

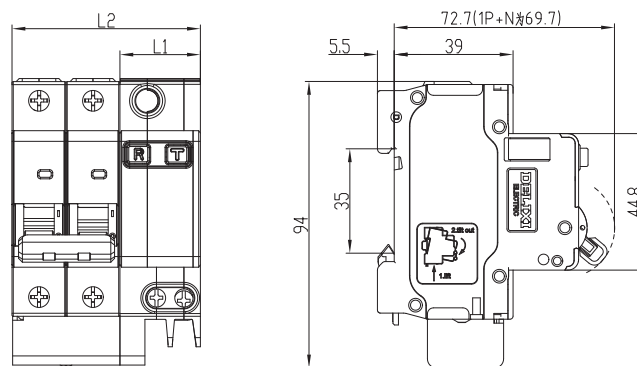
Terminal block form		U-shaped terminal block
Max. wiring capacity		Current grade 6-32: 16 mm ² Current grade 40-63: 25 mm ²
Max. ultimate torque		Current grade 6-32: 2 N.m Current grade 40-63: 2.5 N.m

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

Outline and Installation Dimensions

Dimensional drawing

Spec.	L1 (mm)	L2 (mm)
1P+N 32A	26.4	44.5
1P+N 63A	35.9	53.8
2P 32A	26.4	62.2
2P 63A	35.9	71.6
3P 32A	35.4	89.0
3P 63A	53.5	107.0
3P+N 32A	44.4	98.0
3P+N 63A	71.1	124.7
4P 32A	44.4	115.7
4P 63A	71.1	142.5



Wiring diagram

