

Product Overview

Main functions

Short circuit protection, overload protection, electric leakage protection, disconnection function, and overvoltage protection

Applied standards

GB/T 14048.2, IEC60947-2

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)	63-125
Rated frequency (Hz)	50/60
Number of poles	1P+N,2P,3P,3P+N,4P

Breaking capacity (kA)	10
Rated residual operating current (mA)	30,50,75,100,300
Leakage operation time	≤0.1s
Overvoltage protection function (V)	(Only suitable for 1P+N, 2P D type products, $I \Delta n=30mA$)

Product Selection

Product name	Number of poles	Trip type	Rated current	Residual current	Other functions
CDB6LEI-125	1	C	63		G
	*1: 1P+N *2: 2P 3: 3P 6: 3P+N 4: 4P	C: C type D: D type	63: 63A 80: 80A 100: 100A 125: 125A	Default:30mA R50: 50mA R75: 75mA R100: 100mA R300: 300mA	Default: With AC electric leakage protection, without overvoltage protection A: With A type electric leakage protection, without overvoltage protection G: With AC electric leakage protection, and with overvoltage protection

Notes:

- Only C type 1P+N, 2P 30mA products have overvoltage protection functions.
- Those listed in the above table are the non-RoHS material selection rules; for RoHS compliant products, the model number is changed to CDB6LER-125 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, and SD

Technical Parameters

Electrical characteristics

Rated insulation voltage U_i	(V)	500
Rated operating voltage U_e	(V)	1P+N, 2P: 230/240 AC 3P, 3P+N, 4P: 400/415 AC
Rated short circuit capacity I_{cu} (IEC/EN60898)	(kA)	10
Rated impulse withstand voltage U_{imp} (1.2/50)	(kV)	4
Dielectric test voltage		2kV (50Hz, 1 minute)
Disconnection function		Yes

Leakage protection type		A, AC types
Pollution level		2
Trip type		Thermal magnetic trip
Thermal magnetic trip characteristics	C type curve (5 I_n ~10 I_n)	■
	D type curve (10 I_n ~14 I_n)	■
Electrical and mechanical accessories		■

Mechanical characteristics

Trip indicator		There is a residual current operation trip indicator for CDB6LEi-125. 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	6000 times ($I_n \leq 100A$) 4000 times ($I_n > 100A$)
Protection grade	Installed in a distribution box:	IP40
	Installed directly	IP20

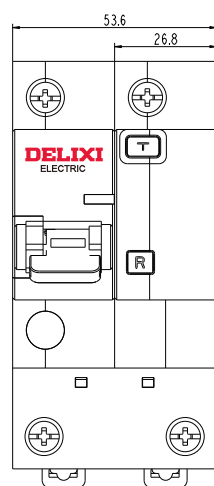
Mechanical shock resistance		30g, 3 shocks, duration 11 ms (in places without significant vibration and shock)
Vibration resistance (IEC/EN 60068-2-6)		In places without significant vibration and shock
Resistance to damp and heat (IEC 60068-2)	Damp and heat °C /RH	Class 2, 28 cycles When the temperature 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

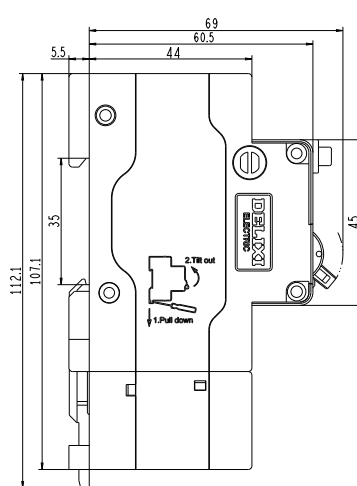
Terminal block form		U-shaped terminal block
Max. wiring capacity		Current grade 63-125: 50 mm ²
Max. ultimate torque		Current grade 63-125: 3.5 N.m

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

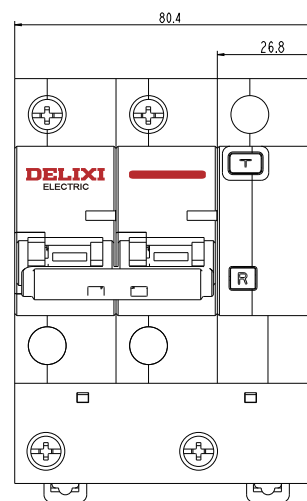
Outline and Installation Dimensions



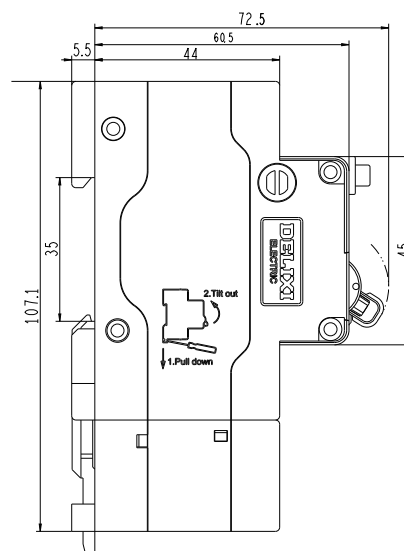
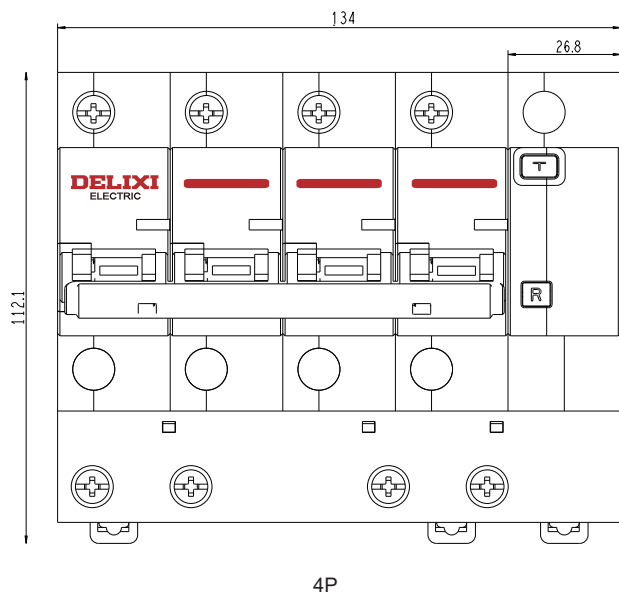
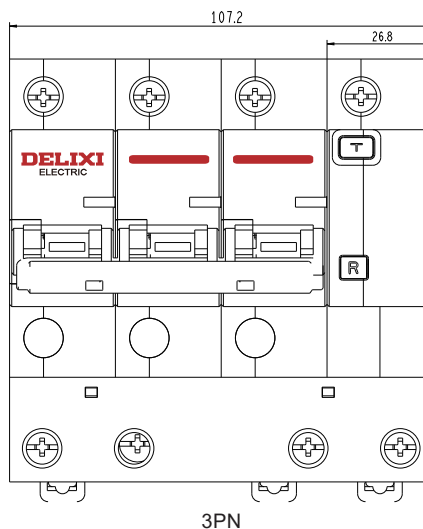
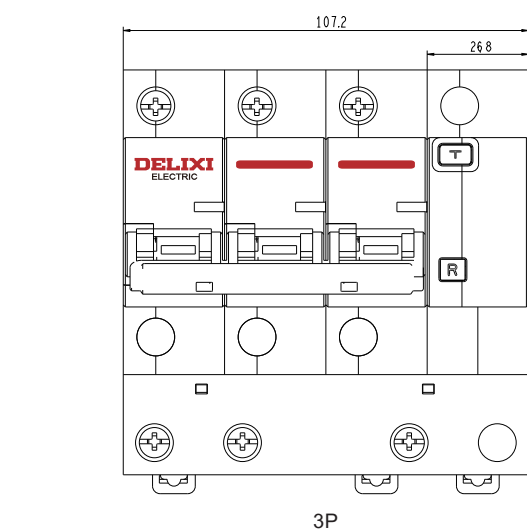
1P+N



1P+N Right View

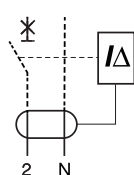


2P

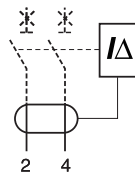


Right View for Multiple Poles

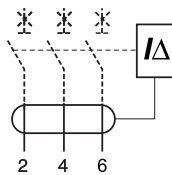
■ Wiring diagram



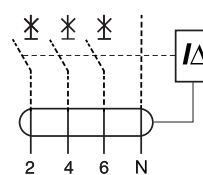
1P+N



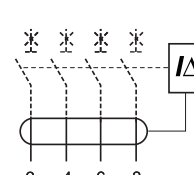
2P



3P



3P+N



4P