

## Functions and features

### DZ47LE-125 High-Current Earth Leakage Circuit Breaker

Applied standards:  
GB/T14048.2 IEC60947-2

Conformity certification:



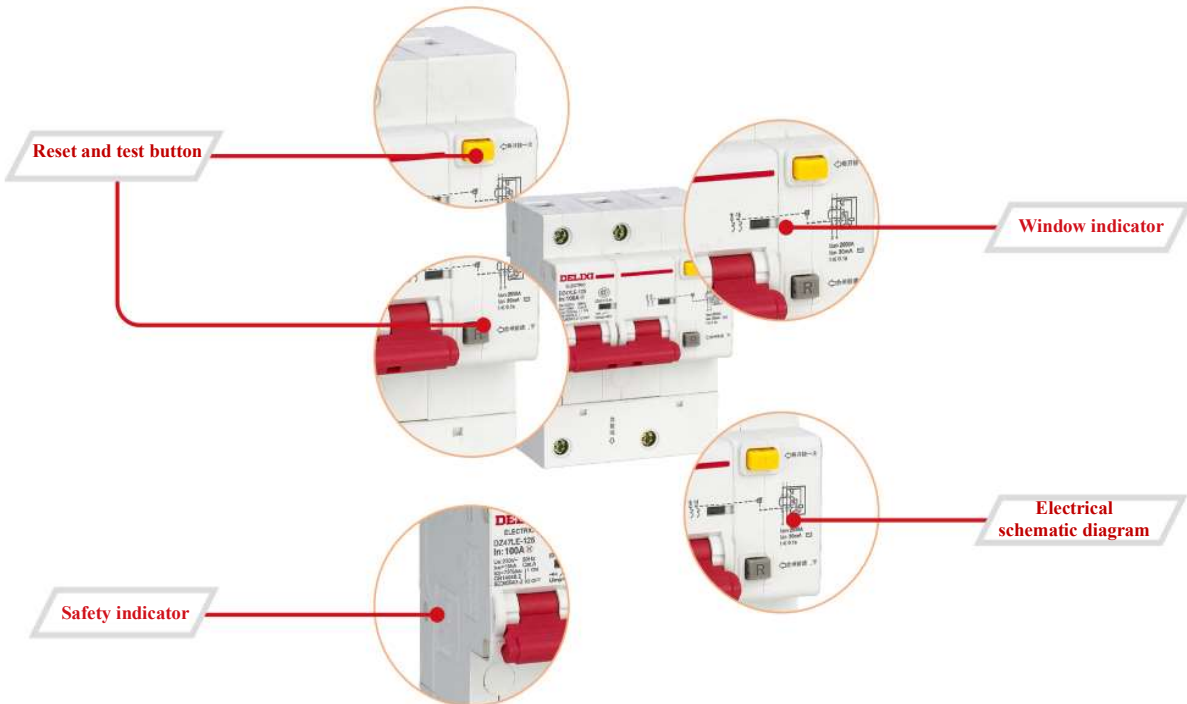
**DZ47LE-125 High-Current Earth Leakage Circuit Breaker has the following functions**

- Short-circuit protection
- Overload protection
- Isolation function
- Earth leakage protection function
- Overvoltage protection function

#### Main features

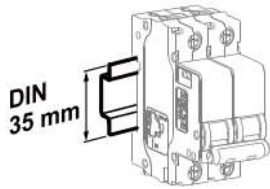
Rated working voltage (V)	1P+N, 2P: 230 AC 3P, 3P+N, 4P: 400 AC
Rated current (A)	63-125
Rated frequency (Hz)	50
Number of poles	1P+N, 2P, 3P, 3P+N, 4P
Breaking capacity (kA)	10
Rated residual operating current (mA)	30, 50, 75, 100, 300
Overvoltage protection function (V)	(280±14) V AC (1P+N,2P 30mA Product can provide overvoltage protection functions)

#### Product details

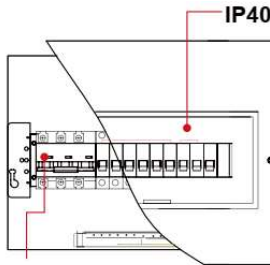


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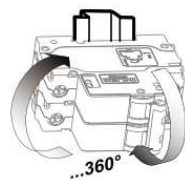
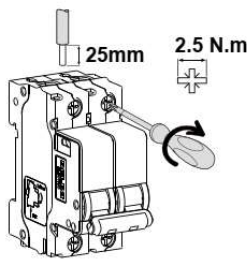
## DZ47LE-125 High-Current Earth Leakage Circuit Breaker



Installed on the 35mm standard rail



IP20



Flexible installation direction

### Electrical characteristics

Rated insulation voltage $U_i$	(V)	500
Max. working voltage $U_{Bmax}$	1P+N, 2P (V) 3P, 3P+N, 4P (V)	230 AC 400 AC
Rated short-circuit capacity $I_{cn}$ (IEC/EN60898)	(kA)	10
Rated impulse withstand voltage $U_{imp}$ (1.2/50)	(kV)	4
Dielectric test voltage		2kV (50/60Hz, 1 minute)
Isolation function		Yes
Pollution level		2
Trip form		Thermal magnetic trip
Thermal magnetic trip characteristics	C-shaped curve ( $I_t=8.5I_n$ ) D-shaped curve ( $I_t=12I_n$ )	■ ■
Electrical and mechanical accessories		■

### Mechanical properties

Trip indicator		There is a residual current action trip indicator for DZ47LE-125; when the reset button pops up, earth leakage trip will be activated
Manual control	Overcurrent fault Earth leakage fault	Reset the circuit breaker and residual current action device simultaneously First reset the residual current action device, and then reset the circuit breaker
Handle		Red, transfer printing indicates ON-OFF position
Mechanical life	Times	20000 times
Electrical life	Times	6000 times ( $I_n \leq 100A$ ) 4000 times ( $I_n \geq 100A$ )
Protection grade	Installed in a power distribution box Installed directly	IP40 IP20
Mechanical shock resistance		30g, 3 shocks, duration 11ms (Installed in a place where there is no obvious vibration or shock)
Vibration resistance (IEC/EN 60068-2-6)		Installed in a place where there is no obvious vibration or shock
Damp heat resistance (IEC 60068-2)	Damp heat	°C/RH Class 2, 28 cycles The relative humidity is 90%-96% at the temperature 55°C The relative humidity is 95%-100% at the temperature 25°C
Reference ambient temperature		°C -30°C
Ambient temperature (daily mean temperature $\leq +35^\circ C$ )		°C -35°C~+70°C
Storage temperature		°C -40°C~+85°C

### Installation features

Wiring terminal form		U-shaped wiring terminal
Max. wiring capacity		Current class 63-125A: 50mm <sup>2</sup>
Max. limit torque		Current class 63-125A: 3.5N.m
Tools		Cross screwdriver or slotted screwdriver
Installation		Installed in the standard DIN rail (35mm)
Incoming method		Top-in