

Functions and features

DZ47PLE “Phase Line + Neutral Line” Earth Leakage Circuit Breaker

Applied standards:
GB/T16917.1 IEC61009-1

Conformity certification:



DZ47PLE “Phase Line + Neutral Line” Earth Leakage Circuit Breaker has the following functions

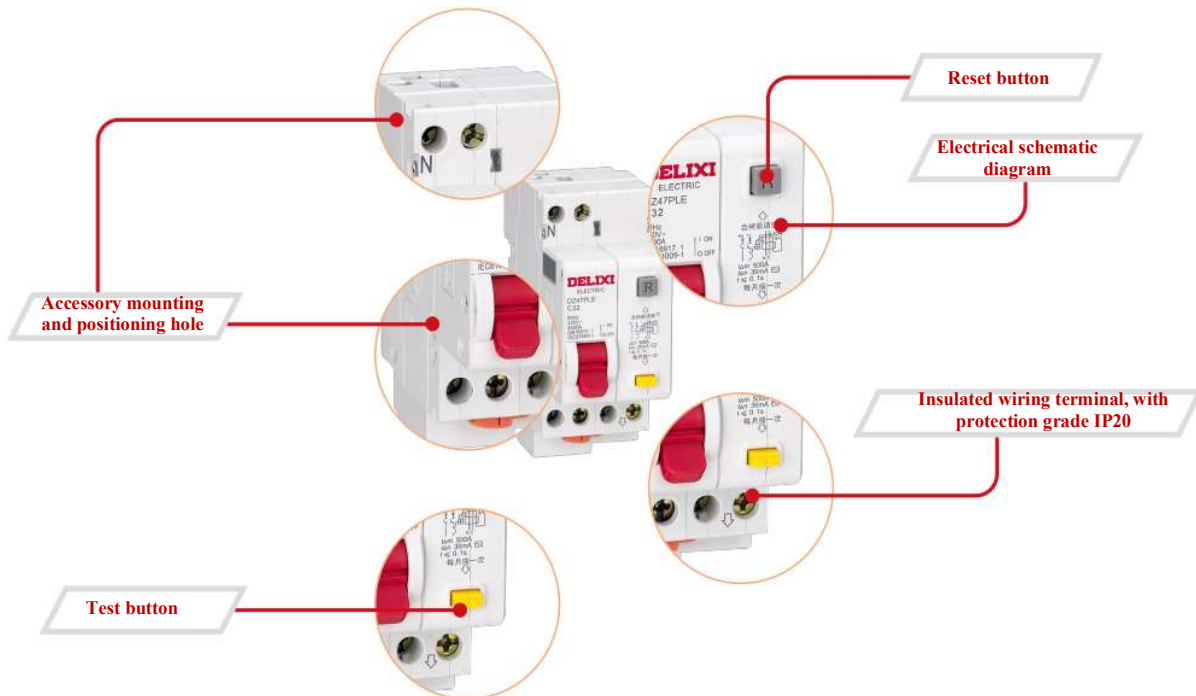
- Short-circuit protection
- Overload protection
- Isolation function
- Earth leakage protection function
- Overvoltage protection function (only for overvoltage products)

Main features

Rated working voltage (V)	1P+N: 230 AC
Rated current (A)	6-40
Rated frequency (Hz)	50
Number of poles	1P+N
Breaking capacity (kA)	4.5
Rated residual operating current (mA)	30
Overvoltage protection function (V)	(280±14) V AC

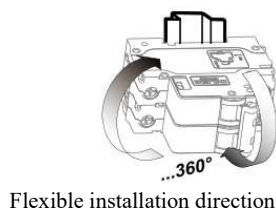
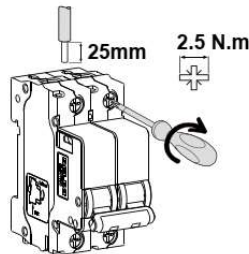
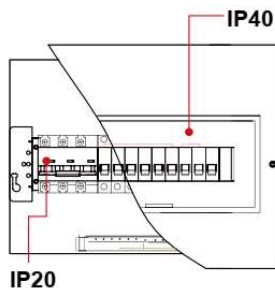
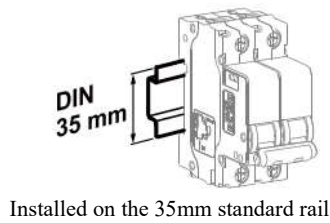


Product details



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Electrical characteristics

Rated insulation voltage U_i	(V)	500
Max. working voltage U_{Bmax}	IP+N (V)	230 AC
Rated short-circuit capacity I_{cn} (IEC/EN61009-1)(kA)		4.5
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 ($5I_n \sim 10I_n$)	■
	D-shaped curve ($10I_n \sim 14I_n$)	■
Electrical and mechanical accessories		■

Mechanical properties

Trip indicator		There is a residual current action trip indicator for DZ47PLE; when the reset button pops up, earth leakage trip will be activated
Manual control	Overcurrent fault	Reset the circuit breaker and residual current action device simultaneously
	Earth leakage fault	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
Electrical life	Times	10000
Protection grade	Installed in a power distribution box	IP40
	Installed directly	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 $\leq +35^\circ\text{C}$)		°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 6-40A: 16mm ²
Max. limit torque	Current class 6-40A: 2N.m
Tools	Cross screwdriver or slotted screwdriver
Installation	Installed in the standard DIN rail (35mm)
Incoming method	Top-in