

Standard
GB10963.1 IEC/EN60898-1

Certificate




DZ47-125 27mm Miniature Circuit Breaker

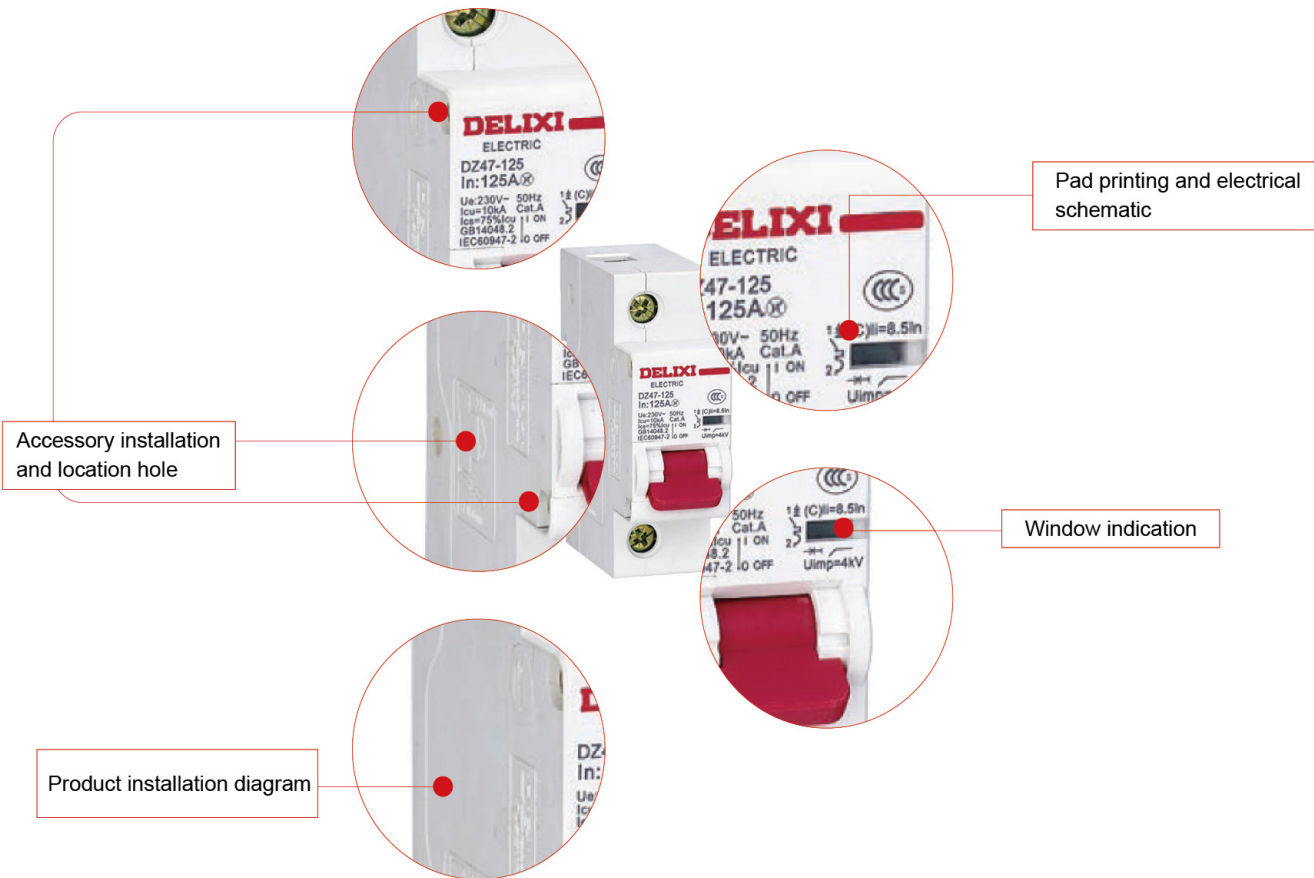
DZ47-125 miniature circuit breaker has the following functions:

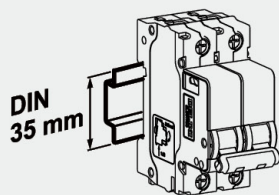
- Short-circuit protection
- Over-load protection
- Isolation protection

Specification

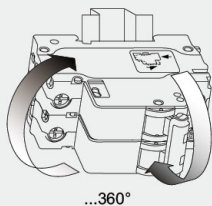
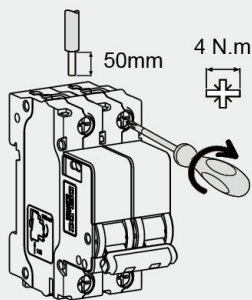
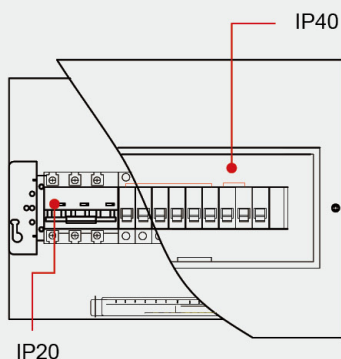
Rated operating voltage (V)	1P: 230/400 AC
	2P, 3P, 4P: 400 AC
Rated current(A)	63~125
Rated frequency(Hz)	50/60
Poles	1P,2P,3P,4P
Breaking capacity(kA)	10

Product Details Showing





Mounted on 35mm standard Din-rail



Flexible installation direction

Electrical characteristics

Rated insulation voltage (Ui)	(V)	250(phase to earth) / 500(phase to phase)
Maximum operating voltage U_{Bmax}	1P (V)	230/400 AC
	2P,3P,4P (V)	400 AC
Rated short circuit capability Icn (IEC/EN60898)	(kA)	10
Rated impulse withstand voltage $U_{imp}(1.2/50)$	(kV)	4
Dielectric test voltage		2kV(50/60HZ,1mins)
Isolation function		YES
Pollution degree		2
Tripping type		Thermal magnetic tripping
Characteristic of Thermal-Magnetic Tripping	C Curve($I_n \sim 8.5I_n$)	■
	D Curve($I_n \sim 12I_n$)	■
Electrical and mechanical accessories		■

Mechanical Characteristics

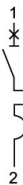
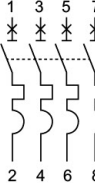
Handle	Red, pad printing indication ON-OFF position
Mechanical life	times 20000
Electrical life	times 6000 ($I_n \leq 100A$) 4000 ($I_n \geq 100A$)
Protection degree	Installed in distribution box IP40
	Installed directly IP20
Mechanical shock resistance	30g.3 times shock,duration 11ms (No significant vibration and shock place)
Anti-vibration (IEC/EN 60068-2-6)	(No significant vibration and shock place)
Damp and hot resistance (IEC 60068-2)	Damp and hot °C /RH 2 type 28 cycles Temp. 55°C Humidity 90%~96% Temp. 25°C Humidity 95%~100%
Reference ambient temperature	°C 30°C
Ambient temperature (Daily average temperature $\leq +35^\circ C$)	°C -35°C ~+70°C
Stock Temperature	°C -40°C ~+85°C

Installation Characteristics

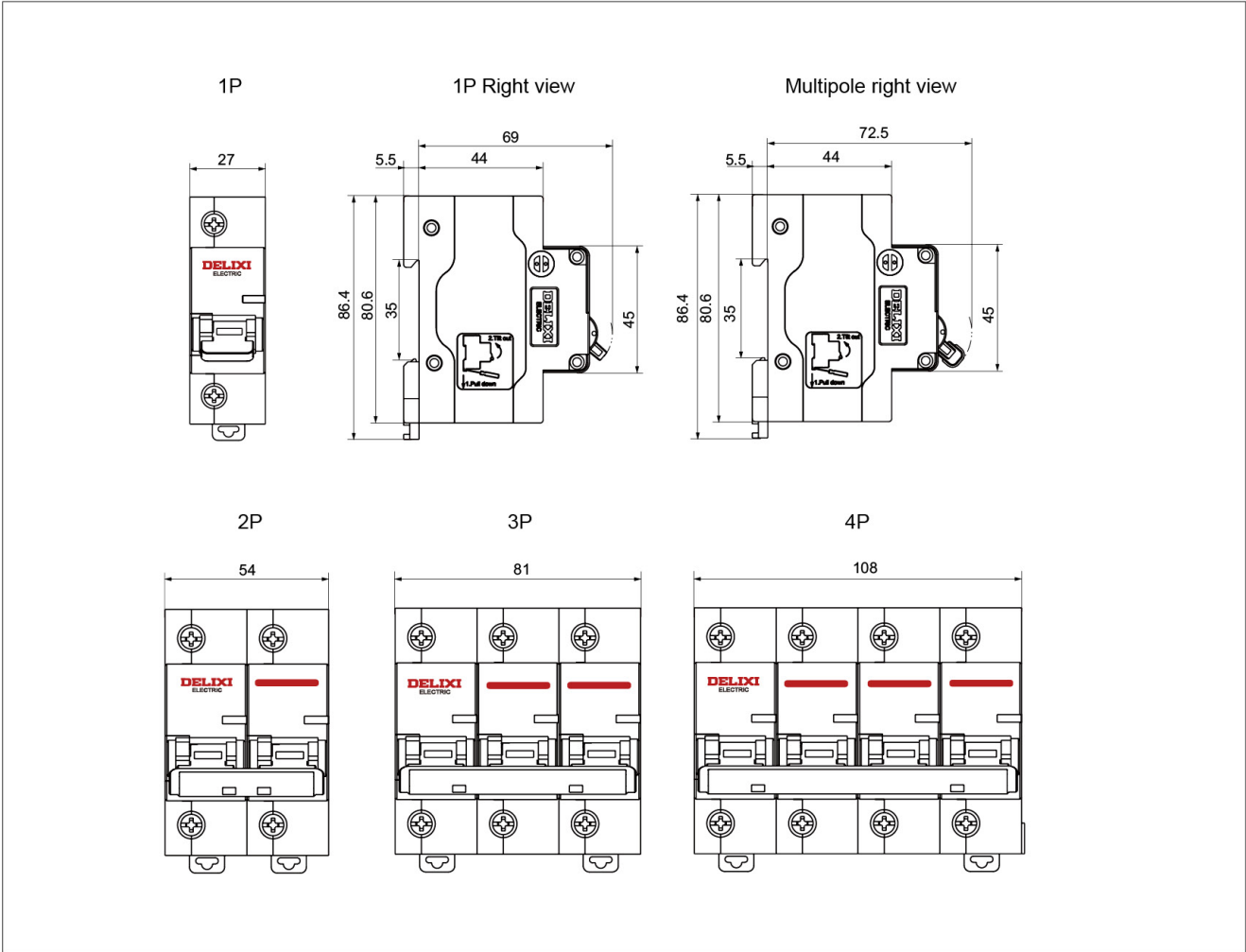
Terminal type	U terminal
Maximum wiring capability	(A) Current rating 63-125:25mm ²
Maximum limit torque	(A) Current rating 63-125:3.5 N.m
Tool	Crosshead or flathead screwdriver
Installation	Mounted on standard DIN rail (35mm)
Incoming type	Top or bottom

DZ47-125 27mm Miniature Circuit Breaker

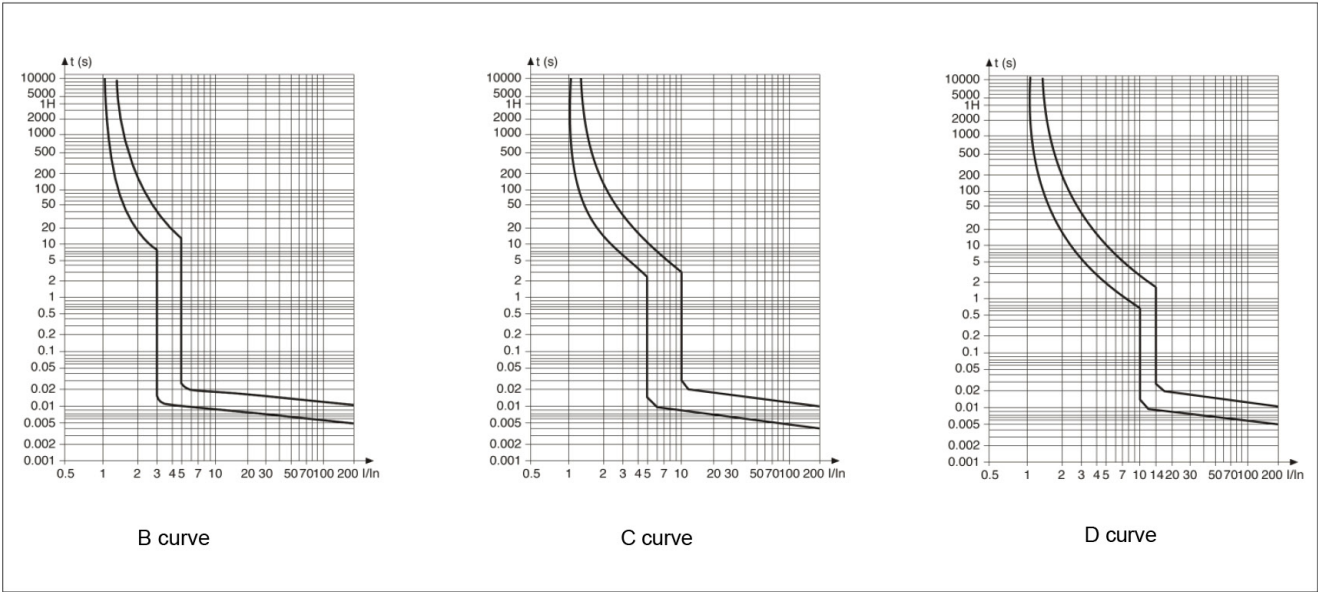
Model	Pole	Tripping Curve	Rated Current
DZ47-125	1	C	6
	1: 1P 2: 2P 3: 3P 4: 4P	C: li(C) *D: li(D)	63: 63A 80: 80A 100: 100A 125: 125A

DZ47-125	Type	Rated current	Trip type	
			C	D
	1P	63	DZ471251C63	DZ471251D63
		80	DZ471251C80	DZ471251D80
		100	DZ471251C100	DZ471251D100
		125	DZ471251C125	DZ471251D125
	2P	63	DZ471252C63	DZ471252D63
		80	DZ471252C80	DZ471252D80
		100	DZ471252C100	DZ471252D100
		125	DZ471252C125	DZ471252D125
	3P	63	DZ471253C63	DZ471253D63
		80	DZ471253C80	DZ471253D80
		100	DZ471253C100	DZ471253D100
		125	DZ471253C125	DZ471253D125
	4P	63	DZ471254C63	DZ471254D63
		80	DZ471254C80	DZ471254D80
		100	DZ471254C100	DZ471254D100
		125	DZ471254C125	DZ471254D125

Installation Dimensions



Tripping curve



DZ47-125 accessories

Remote indication accessories

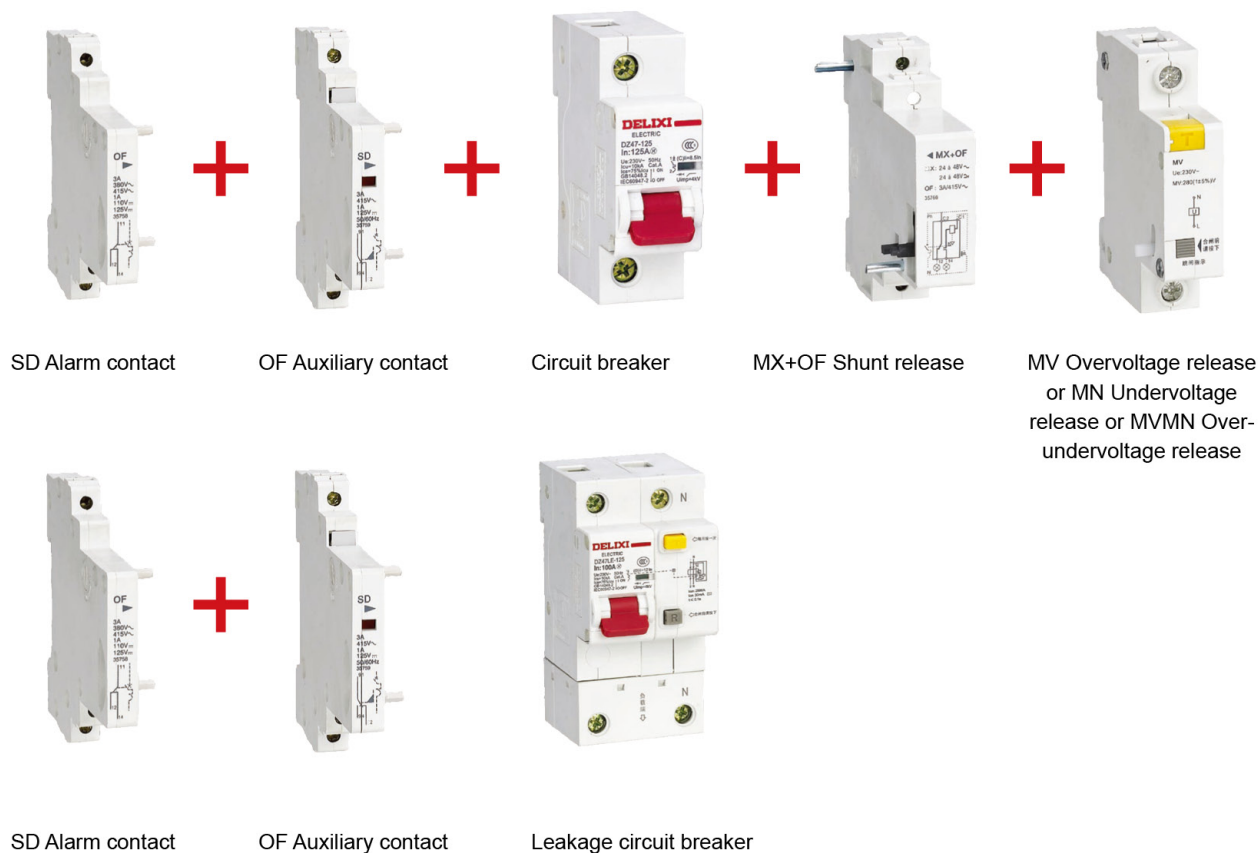
- OF Auxiliary contact
 - ☐ External circuit, indicating the status of the circuit breaker
 - ☐ Basic form of the auxiliary contact: 1 NO, 1 NC
 - ☐ Wiring capacity: 1-4mm²

- SD Alarm contact
 - ☐ Signal when the circuit breaker fault trips
 - ☐ Mechanical indication on the front panel to indicate fault tripping
 - ☐ Basic form of the auxiliary contact: 1 NO, 1 NC
 - ☐ Wiring capacity: 1-4mm²

Trip accessories

- MX+OF Shunt release
 - ☐ External circuit, indicating the status of the circuit breaker
 - ☐ When the signal is obtained, the circuit breaker trips
 - ☐ The basic form of the auxiliary contact: 1 NO, 1 NC
 - ☐ Wiring capacity: 1-4mm²
- MV Overvoltage release
 - ☐ Protection against line overvoltage faults
 - ☐ When the voltage across the trip unit rises to the rated range, the circuit breaker trips
 - ☐ There is a fault trip indication on the front panel, and the indicator pops up for overvoltage tripping.
 - ☐ Rated working trip overvoltage: (280+/-14) V AC
 - ☐ Wiring ability: 1-25mm²
- MN Undervoltage release
 - ☐ Protection against line undervoltage faults
 - ☐ When the voltage across the trip unit drops to the rated range, the circuit breaker trips
 - ☐ There is a fault trip indication on the front panel, and the indicator pops up for undervoltage tripping
 - ☐ Rated working trip undervoltage: (161+/-8.05) V AC, undervoltage protection interval is (35%~70%) Ue
 - ☐ Ue Wiring ability: 1-25mm²
- MVMN Over-undervoltage release
 - ☐ Protection against line overvoltage and undervoltage
 - ☐ When the voltage across the trip unit rises or falls to the rated range, the circuit breaker trips
 - ☐ There is a fault trip indication on the front panel, and the indicator pops up for overvoltage or undervoltage tripping
 - ☐ Rated working trip overvoltage: (280+/-14) V AC, rated working trip undervoltage: (161+/-8.05) V AC, undervoltage protection interval is (35%~70%) Ue
 - ☐ Wiring ability: 1-25mm²

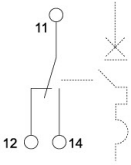
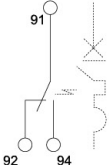
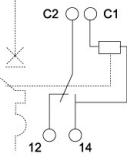
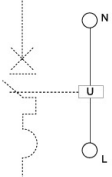
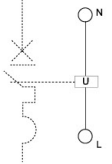
DZ47-125 Accessories installation diagram



Assembly instructions

- 1.DZ47-125 series accessories are VC products, not sold separately, spliced by the manufacturer, customers can not assemble themselves.
- 2.OF, SD assembled on the left side of the circuit breaker, only one accessory can be assembled on the left side of each circuit breaker.
- 3.MX+OF, MV, MN, MVMN are assembled on the right side of the circuit breaker, and only one accessory can be assembled on the right side of each circuit breaker.
- 4.DZ47LE-125 leakage products can not be assembled on the right side of the accessories.

DZ47-125 Assembly instructions

Product name	Width(mm)	Voltage range(V)	Order code
OF	9		DZ47125OF
			
SD	9		DZ47125SD
			
MX+OF	18 18	AC: 130V-415V; DC: 110-130v AC/DC: 24V-48V;	DZ47125MO24 DZ47125MO220
			
MV	18	AC: 230V	DZ47125MV
			
MN	18	AC: 230V	DZ47125MN
			
MVMN	18	AC: 230V	DZ47125MVMN
