

DZ47LE-100 Residual Current Operated Circuit Breaker with Over-current Protection



DZ47LE-100 1P+N

1. Application

DZ47LE-100 is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC60947-2.

2. Main Technical Parameter

Type	DZ47LE-100	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	63,80,100	
Rated voltage(V)	230	400
Rated short circuit breaking capacity Icn(kA)	6	
Rated residual making/breaking capacity IΔm(A)	2000	
Rated residual action current IΔn(A)	0.03,0.1,0.3	
Rated residual non-action current IΔno(A)	0.5IΔn	
Over voltage protection grade	280V±5%	



DZ47LE-100 2P

3. Applicable Conducting Wire

Rated current(A)	63	80	100
Nominal cross section of wire mm ²	16	25	35

4. Residual Current Breaking Time

I _n (A)	I _{Δn} (A)	Breaking time(s) when equals to rating following				
		I _{Δn}	2I _{Δn}	5I _{Δn}	5,10,20,50,100,200,500 ^a (A)	I _{Δt} ^b
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04	0.04



DZ47LE-100 3P

5. The Over-current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
40±2°C	Cold position	1.05I _n (I _n ≤ 63A)	t ≤ 1h	Non-release	—
	Cold position	1.05I _n (I _n > 63A)	t ≤ 2h	Non-release	—
	Carried out immediately after previous test	1.30I _n (I _n ≤ 63A)	t < 1h	Release	Current smoothly rises to specified value within 5s
	1.30I _n (I _n > 63A)	t < 2h	Release		
-5~+40°C	Cold position	8.00I _n	t ≤ 0.2s	Non-release	—
	Cold position	12.00I _n	t < 0.2s	Non-release	—

6. Dimension



DZ47LE-100 3P+N

