

1. Application

DZ47LE-63 is applicable to a line of AC 50Hz/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 IEC61009.



2. Specification

2.1 Main Technical Parameter

| Type | DZ47LE-63 | |
|---|---------------------------|------------|
| Pole | 1P+N,2P | 3P,3P+N,4P |
| Rated current (A) | 6,10,16,20,25,32,40,50,63 | |
| Rated voltage (V) | 230 | 400 |
| Rated short circuit breaking capacity $I_{cn}(KA)$ | 6-32A :6 / 40-63: 4.5 | |
| Rated residual making/breaking capacity $I_{\Delta m}(A)$ | 2000 | |
| Rated residual action current $I_{\Delta n}(A)$ | 0.03,0.05,0.1,0.3 | |
| Rated residual non-action current $I_{\Delta no}(A)$ | 0.5 $I_{\Delta n}$ | |

2.2 Applicable conducting wire

| Rated current(A) | 1-6A | 10A | 16,20A | 25A | 32A | 40,50A | 63A |
|--|------|-----|--------|-----|-----|--------|-----|
| Normal cross section of wire mm ² | 1 | 1.5 | 2.5 | 4 | 6 | 10 | 16 |

2.3 Residual current breaking time

| $I_n(A)$ | $I_{\Delta n}(A)$ | Breaking time(s) when equals to rating following | | | | |
|----------|----------------------|--|-----------------|-----------------|---|-----------------|
| | | $I_{\Delta n}$ | $2I_{\Delta n}$ | $5I_{\Delta n}$ | 5,10,20,50,100,200,500 ^a (A) | $I_{\Delta}t^b$ |
| 6-63 | 0.03, 0.05, 0.1, 0.3 | 0.1 | 0.06 | 0.04 | 0.04 | 0.04 |

2.4 The over-current protection property

| Ambient Temperature | Initial Status | Test Current | Expected Result | Expected Result | Note |
|---------------------|---|--------------|-----------------------|-----------------|---|
| 30±°C | Cold position | 1.13In | t≥1h | Non-release | - |
| | Carried out immediately after previous test | 1.45In | t< 1h | Release | - |
| | Cold position | 2.55In | 1s < T < 60S(IN≤32A) | Release | Current smoothly rises to specified value within 5s |
| | Cold position | 2.55In | 1s < T < 120S(IN>32A) | Release | |
| -5~+40°C | Cold position | 3In | t≥0.1s | Non-release | Type B |
| | Cold position | 5In | t<0.1s | Release | Type B |
| | Cold position | 5In | t ≥ 0.1s | Non-release | Type C |
| | Cold position | 10In | t < 0.1s | Release | Type C |
| | Cold position | 10In | t≥0.1s | Non-release | Type D |
| | Cold position | 20In | t<0.1s | Release | Type D |

3. Installation

3.1 Normal working condition

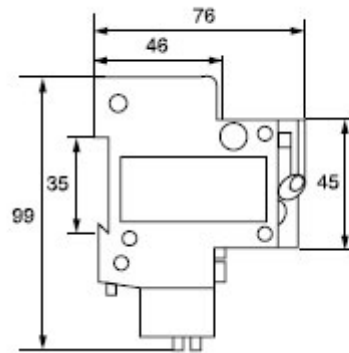
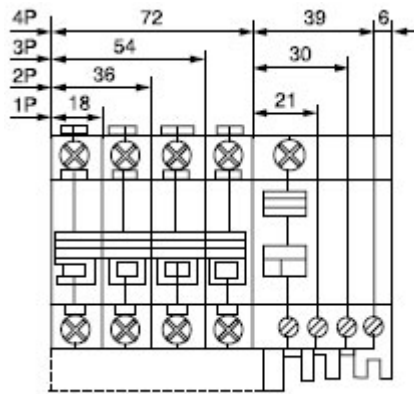
The maximum ambient temperature should be $-5^{\circ}\text{C} < T < +40^{\circ}\text{C}$, average temperature should be $\leq 35^{\circ}\text{C}$ at 24h. The altitude of installation place should not exceed 2000m. The relative humidity should not exceed 50% at 40°C , it permits higher relative humidity when at a higher temperature, the average maximum relative humidity should not exceed 90% at maximum humidity month, and this month's average minimum temperature does not exceed $+25^{\circ}\text{C}$, and it should take consideration on the product's surface for temperature change.

3.2 Installation condition

The Mini Circuit Breaker is installed by standard mounting rail; the Mini Circuit Breaker is upright installation, knob upwards is switch on position. The installation place is not of obviously impact and librate.

DZ47LE-63

3.3 Dimension



4P: 72+45
3P+N: 54+45
3P: 54+36
2P: 36+27
1P: 18
27