

1. Application

DZ30LE-32 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	DZ30LE-32	
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 Icn(KA)	6-32A :6 / 40-63: 4.5	
Rated residual making/breaking capacity IΔm(A)	2000	
Rated residual action current IΔn(A)	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current IΔno(A)	0.5IΔn	

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

In(A)	IΔn(A)	Breaking time(s) when equals to rating following				
		IΔn	2IΔn	5IΔn	5, 10, 20, 50, 100, 200, 500 ^a (A)	IΔt ^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	1.13I _n	t ≥ 1h	Non-release	-
	Carried out immediately after previous test	1.45I _n	t < 1h	Release	-
	Cold position	2.55I _n	1s < T < 60S(I _N ≤ 32A)	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55I _n	1s < T < 120S(I _N > 32A)	Release	
-5~+40°C	Cold position	3I _n	t ≥ 0.1s	Non-release	Type B
	Cold position	5I _n	t < 0.1s	Release	Type B
	Cold position	5I _n	t ≥ 0.1s	Non-release	Type C
	Cold position	10I _n	t < 0.1s	Release	Type C
	Cold position	10I _n	t ≥ 0.1s	Non-release	Type D
	Cold position	20I _n	t < 0.1s	Release	Type D

3 Installation

3.1 Normal working condition

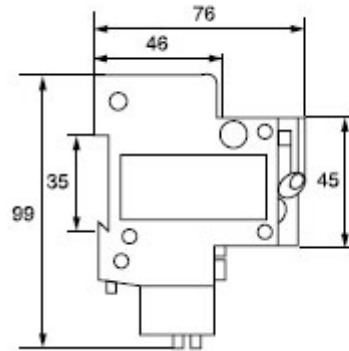
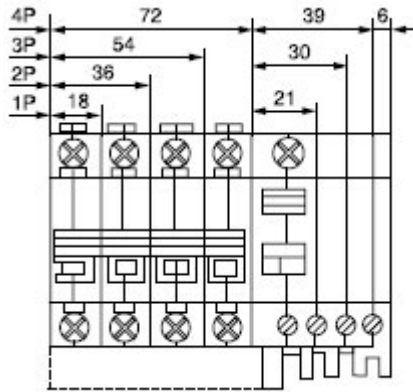
The maximum ambient temperature should be $-5^{\circ}\text{C} < T < +40^{\circ}\text{C}$, average temperature should be $\leq 35^{\circ}\text{C}$ at 24h. The altitude of installation place should not exceed 2000m. The relative humidity should not exceed 50% at 40°C, it permits higher relative humidity 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°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.

DZ30LE-32

3.3 Dimension



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