# C45LE Leakage Circuit Breaker With Over-current Protection



## 1. Application

C45LE 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. Main technical parameter

Туре	C45LE			
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 $I\Delta m(A)$	2000			
Rated residual action current IΔn(A)	0.03,0.05,0.1,0.3			
Rated residual non-action current I∆no(A)	0.5l∆n			

## 3. Applicable conducting wire

Rated current(A)	1– 6A	10A	16, 20A	25A	32A	40, 50A	63A
Norminal cross section of wire mm <sup>2</sup>	1	1.5	2.5	4	6	10	16

## 4. Residual current breaking time

	n	l∆n	Breaking time(s) when equals to rating following							
(,	A)	(A)	l∆n	2l∆n	5l∆n	5,10,20,50,100,200,500a(A)	I∆t <sup>b</sup>			
6-	-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04	0.04			

## 5. The over-current protection property

Ambient Temperature	Initial Status	Test Current	Expected Result	Expected Result	Note
	Cold position	1.13ln	t ≤1h	Non-release	_
	Carried out immediately after previous test	1.45ln	t<1h	Release	-
30 ± 2°C	Cold position	2.55In	1s <t<60s (In ≤ 32A)</t<60s 	Release	Current smoothly rises to specified
	Cold position	2.55ln	1s <t<120s (In&gt;32A)</t<120s 	Release	value within 5s
	Cold position	3ln	t ≤0.1s	Non-release	Type B
	Cold position	5ln	t<0.1s	Release	Type B
-5~+40°C	Cold position	5ln	t ≤ 0.1s	Non-release	Type C
0 1 10 0	Cold position	10ln	t<0.1s	Release	Туре С
	Cold position	10ln	t ≤ 0.1s	Non-release	Type D
	Cold position	20In	t<0.1s	Release	Type D