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## CDL7 Series Residual Current Circuit Breakers

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### Applicable Range

CDL7 series residual current circuit breaker is designed for electric shock protecting and human indirect contact protection, and electric equipment protection when human body touching electricity or electric network leak current exceeds stipulated value, in household or similar uses with AC 50Hz, rated working voltage 400V and below, rated current up to 63A, without relationship to line voltage. It is widely used in all kinds of fields, such as industry, business, civilian household, and so on. It can be used for overload and short-circuit protections when it cooperates with the CDB17 series breakers.

### Applicable Standards

International standard:

IEC 61008-1 Residual current operated without integral overcurrent protection of household and similar uses(RCCB)

### Normal Usage and Mounting Conditions

a) Ambient temperature

The breaker can work under ambient air temperature  $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ;

b) Altitude

The breaker can work under altitude not exceed 2000m;

c) Class of pollution

The class of pollution is Class 2;

d) Installation type

The installation type is III;

e) Mounting position

The breaker can be mounted in rail, or horizontally, vertically. It will not decrease their electric features;

f) Environmental protection

Environmental factors are adequately considered in the design of circuit breaker, with many recoverable and degradable materials.

G) Power source in-line

The in-line can be connected from different directions, which will not affect its electric features.



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## Main Technical Data

Model	CDL7-63		
Number of poles	2P 4P		
Rated current $I_n$	A	10 16 25 32 40 63	
Rated frequency	Hz	50	
Rated operating voltage $U_e$	V	230 400	
Rated isolating voltage $U_i$	V	500	
Rated short-circuit making capacity $I_m$	A	630	
Rated limit short-circuit current $I_c$	A	6000	
Rated residual actuating current $I_{\Delta n}$	mA	30 100 300	
Rated residual non-actuating current $I_{\Delta no}$	mA	15 50 150	
Breaking time $I_{\Delta}=I_{\Delta N}$	ms	$\leq 100$	
	$I_{\Delta}=5I_{\Delta N}$	ms	$\leq 40$
Frequency of operation cycle	per hour	time	240
	electrical	time	1000
	non-electrical	time	2000
Level of protection	Ip20		
Working feature with DC weight	A、 AC (type)		
Mounting type	rail plug-in		
Connection type	terminal with clip		
Ambient temperature	Min/Max	°C	-25/+40
Altitude	Max	m	2000
Connection lead	Min/Max	mm <sup>2</sup>	1/25
Tightening torque		N.m	2
External dimensions (L×W×H)	2P	mm	82.5×36×76
	4P	mm	82.5×72×76
Weight	2P	kg	0.275
	4P	kg	0.360

## Outline and Installation Dimensions

Outline and installation dimension, see Table 1. It is mounted by steel mounting guide rail, Type TH35-7.5

