



# ELR Series Residual Current Circuit Breaker

## Application

<b>Standard</b>	Confirming to EN / IEC61008-1
<b>Rated conditional short-circuit current, Inc</b>	6kA
<b>Protection</b>	Ground fault
<b>Rated current, In</b>	16,25,32,40,63,80,100A
<b>Number of poles</b>	2(1+N),4(3+N)pole
<b>Rated sensitivity current, I<sub>Δn</sub></b>	10,30,100,300mA
<b>Rated residual non-operating current</b>	0.5 X I <sub>Δn</sub>
<b>Rated impulse withstand voltage Uimp</b>	6000V
<b>Rated voltages</b>	2pole 230VAC 4pole 230/400VAC
<b>Protection degree</b>	-25°C~+40°C
<b>Residual current off-time at I<sub>Δn</sub></b>	≤ 0.1s
<b>Rated residual current making &amp; breaking capacity, I<sub>Δm</sub></b>	500A for In=16,25,32,40A 630A for In=63,80,100A
<b>Type of trip</b>	Electro-magnetic release
<b>Type of terminal</b>	Lug type and Pin type
<b>Terminal capacity</b>	Cables up to 35mm <sup>2</sup>
<b>Protection degree</b>	IP20
<b>Installation</b>	35mm DIN rail

## 1. Endurance

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16,25,32	2000	2000	240
40,63,80,100	2000	1000	120

## 2. Breaking time of residual current

Breaking time of residual current						
In (A)	I <sub>Δn</sub> (A)	I <sub>Δn</sub>	2I <sub>Δn</sub>	5I <sub>Δn</sub>	5A,10A,20A,50A 100A,200A,500A	
16, 25,32,40,63,80,100	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s	Max.Breaking time

## 3. Wiring The suitable conductors should be used for connection,see table below for relative parameters.

Rated current In (A)	Nominal cross section area of lead (mm <sup>2</sup> )	Tightening torque (N·m)
16	2.5	2.5
25	4	2.5
32	6	2.5
40	10	2.5
63	16	2.5
80	25	3.5
100	35	3.5

## 4. Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008 standards were considered. Important features are:

- Up to date design
- User-friendly connection of conductors and busbars
- Resistance to current surges; unwanted tripping excluded
- Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715
- Additional colour display of main contacts position (red:contacts closed, green:contacts open)

## 5. Overall and mounting dimensions

