



## PLR Series Residual Current Circuit Breaker

### Application

<b>Standard</b>	Confirming to EN / IEC61008-1
<b>Protection</b>	Ground fault
<b>Rated current, I<sub>n</sub></b>	16,25,32,40,63,80,100A
<b>Number of poles</b>	2(1+N),4(3+N)pole
<b>Rated sensitivity currents, I<sub>Δn</sub></b>	10,30,100mA
<b>Rated residual non-operating current</b>	0.5 X I <sub>Δn</sub>
<b>Rated impulse withstand voltage U<sub>imp</sub></b>	6000V
<b>rated voltages</b>	2pole 240VAC
	4pole 240/415VAC
<b>Residual current off-time at I<sub>Δn</sub></b>	≤ 0.1s
<b>Rated residual current making &amp; breaking capacity, I<sub>ΔmA</sub></b>	500A for I <sub>n</sub> =16,25,32,40A
	630A for I <sub>n</sub> =63,80,100A
<b>Rated conditional short-circuit current, I<sub>nc</sub></b>	6kA
<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>Degree of protection</b>	IP20
<b>Installation</b>	35mm DIN rail
<b>Slot size</b>	45mm

### 1. Endurance

I <sub>n</sub>	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						
I <sub>n</sub> (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 I <sub>n</sub> (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

- Without auxiliary power supply, the product is designed with strong immunity and extending protection range against residual current
- With higher rated ultimate short circuit up to 10KA
- High reliable operation thanks to special design terminals
- Even under the pollution environment, the working reliability of the product will never be changed
- Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties
- Convenient mounting
- More flexible and reliable operation with a handle
- With contactor condition indicator.

### 5. Overall and mounting dimensions

