

## RCCB TYPE B EPRI-B Series

- High reliability
- Switched Neutral
- EV Charging & Solar PV Application
- Tripping Under AC, Pulsating & Smooth DC Currents
- Protection against direct/indirect contact



Committed to becoming a world-class intelligent electric brand

## EPRi-B Series Residual Current Circuit Breaker

### Technical data






<b>Standard</b>	EN/ IEC62423
<b>Rated conditional short-circuit current, I<sub>nc</sub></b>	6/10kA
<b>Protection</b>	Ground fault
<b>Rated current, I<sub>n</sub></b>	16,25,32,40,50,63A
<b>Number of poles</b>	2(1+N),4(3+N)pole
<b>Rated sensitivity currents, I<sub>Δn</sub></b>	30, 100,300mA
<b>Rated residual non-operating current</b>	0.5 X I <sub>Δn</sub>
<b>Rated impulse withstand voltage U<sub>imp</sub></b>	4kV
<b>Rated voltages 4pole</b>	240/415VAC
<b>Ambient temperature (°C)</b>	-25~+40,Max. 95%humidity
<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 I <sub>n</sub> =16,25,32,40A 630A for I <sub>n</sub> =63A
<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



**EPRi-B-2P**



**EPRi-B-4P**

EPRI-B RCD	Rated current(A)	$I_{\Delta n}$	B Type   	Packing unit
 <p><b>EPRI-B-2P</b></p>	16	30mA	EPRI-B/2/16/30	1
	25		EPRI-B/2/25/30	1
	32		EPRI-B/2/32/30	1
	40		EPRI-B/2/40/30	1
	50		EPRI-B/2/50/30	1
	63		EPRI-B/2/63/30	1
	16	100mA	EPRI-B/2/16/100	1
	25		EPRI-B/2/25/100	1
	32		EPRI-B/2/32/100	1
	40		EPRI-B/2/40/100	1
	50		EPRI-B/2/50/100	1
	63		EPRI-B/2/63/100	1
 <p><b>EPRI-B-4P</b></p>	16	30mA	EPRI-B/4/16/30	1
	25		EPRI-B/4/25/30	1
	32		EPRI-B/4/32/30	1
	40		EPRI-B/4/40/30	1
	50		EPRI-B/4/50/30	1
	63		EPRI-B/4/63/30	1
	16	100mA	EPRI-B/4/16/100	1
	25		EPRI-B/4/25/100	1
	32		EPRI-B/4/32/100	1
	40		EPRI-B/4/40/100	1
	50		EPRI-B/4/50/100	1
	63		EPRI-B/4/63/100	1
16	300mA	EPRI-B/4/16/300	1	
25		EPRI-B/4/25/300	1	
32		EPRI-B/4/32/300	1	
40		EPRI-B/4/40/300	1	
50		EPRI-B/4/50/300	1	
63		EPRI-B/4/63/300	1	

## 1. Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16,25,32	2000	2000	240
40,50,63	2000	1000	120

## 2. Breaking time of residual current

Max.breaking time					
In(A)	I $\Delta$ n(A)	I $\Delta$ n	2I $\Delta$ n	5I $\Delta$ n	5A,10A,20A,50A,100A,200A,500A
16,25,32,40,50,63	0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

## 3. Wiring

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

Rated current In (A)	Nominal cross section area s(mm) <sup>2</sup>	Tightening torque (N.m)
16	4	2.5
25	4	2.5
32	6	2.5
40	10	2.5
50	16	2.5
63	16	2.5

## 4. Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 62423 standards were considered. Important features are:

Up to date design

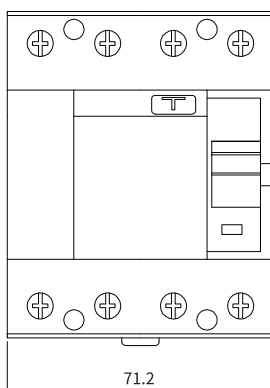
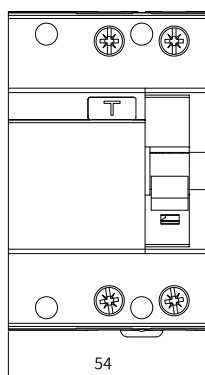
User-friendly connection of conductors and busbars

Resistance to current surges; unwanted tripping excluded

Simple and solid fixing to a 35 mm mounting rail

Additional colour display of main contacts position (red:contacts closed, green:contacts open)

## 5. Overall and mounting dimensions



EPRi-B

