

## EPR-2 Series Residual Current Circuit Breaker

### Technical data

<b>Standard</b>	EN / IEC61008-1
<b>Rated conditional short-circuit current, I<sub>nc</sub></b>	6kA, 10kA
<b>Protection</b>	Ground fault
<b>Rated current, I<sub>n</sub></b>	16,20, 25,32,40,50,63,80A
<b>Number of poles</b>	2(1+N),4(3+N)pole
<b>Rated sensitivity currents, 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 U<sub>imp</sub></b>	4kV
<b>Rated voltage</b>	2pole 240VAC 4pole 415 VAC
<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> =16,25,32,40,50A 630A for I <sub>n</sub> =63A 800A for I <sub>n</sub> =80A
<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 25mm <sup>2</sup>
<b>Protection degree</b>	IP20
<b>Installation</b>	35mm DIN rail





EPR-2-2P



EPR-2-4P

## EPR-2 RCD

Rated current(A)	$I_{\Delta n}$	Type AC 	Type A 	Packing unit
16	10mA	EPR-2/2/16/10	EPR-2/2/16/10-A	1
20		EPR-2/2/20/10	EPR-2/2/20/10-A	1
25		EPR-2/2/25/10	EPR-2/2/25/10-A	1
16	30mA	EPR-2/2/16/30	EPR-2/2/16/30-A	1
20		EPR-2/2/20/30	EPR-2/2/20/30-A	1
25		EPR-2/2/25/30	EPR-2/2/25/30-A	1
32		EPR-2/2/32/30	EPR-2/2/32/30-A	1
40		EPR-2/2/40/30	EPR-2/2/40/30-A	1
50		EPR-2/2/50/30	EPR-2/2/50/30-A	1
63	100mA	EPR-2/2/63/30	EPR-2/2/63/30-A	1
80		EPR-2/2/80/30	EPR-2/2/80/30-A	1
16	100mA	EPR-2/2/16/100	EPR-2/2/16/100-A	1
20		EPR-2/2/20/100	EPR-2/2/20/100-A	1
25		EPR-2/2/25/100	EPR-2/2/25/100-A	1
32		EPR-2/2/32/100	EPR-2/2/32/100-A	1
40		EPR-2/2/40/100	EPR-2/2/40/100-A	1
50		EPR-2/2/50/100	EPR-2/2/50/100-A	1
63	300mA	EPR-2/2/63/100	EPR-2/2/63/100-A	1
80		EPR-2/2/80/100	EPR-2/2/80/100-A	1
16	300mA	EPR-2/2/16/300	EPR-2/2/16/300-A	1
20		EPR-2/2/20/300	EPR-2/2/20/300-A	1
25		EPR-2/2/25/300	EPR-2/2/25/300-A	1
32		EPR-2/2/32/300	EPR-2/2/32/300-A	1
40		EPR-2/2/40/300	EPR-2/2/40/300-A	1
50		EPR-2/2/50/300	EPR-2/2/50/300-A	1
63	10mA	EPR-2/4/63/300	EPR-2/2/63/300-A	1
80		EPR-2/2/80/300	EPR-2/2/80/300-A	1
16	10mA	EPR-2/4/16/10	EPR-2/4/16/10-A	1
20		EPR-2/4/20/10	EPR-2/4/20/10-A	1
25		EPR-2/4/25/10	EPR-2/4/25/10-A	1
16	30mA	EPR-2/4/16/30	EPR-2/4/16/30-A	1
20		EPR-2/4/20/30	EPR-2/4/20/30-A	1
25		EPR-2/4/25/30	EPR-2/4/25/30-A	1
32		EPR-2/4/32/30	EPR-2/4/32/30-A	1
40		EPR-2/4/40/30	EPR-2/4/40/30-A	1
50		EPR-2/4/50/30	EPR-2/4/50/30-A	1
63	100mA	EPR-2/4/63/30	EPR-2/4/63/30-A	1
80		EPR-2/4/80/30	EPR-2/4/80/30-A	1
16	100mA	EPR-2/4/16/100	EPR-2/4/16/100-A	1
20		EPR-2/4/20/100	EPR-2/4/20/100-A	1
25		EPR-2/4/25/100	EPR-2/4/25/100-A	1
32		EPR-2/4/32/100	EPR-2/4/32/100-A	1
40		EPR-2/4/40/100	EPR-2/4/40/100-A	1
50		EPR-2/4/50/100	EPR-2/4/50/100-A	1
63	300mA	EPR-2/4/63/100	EPR-2/4/63/100-A	1
80		EPR-2/4/80/100	EPR-2/4/80/100-A	1
16	300mA	EPR-2/4/16/300	EPR-2/4/16/300-A	1
20		EPR-2/4/20/300	EPR-2/4/20/300-A	1
25		EPR-2/4/25/300	EPR-2/4/25/300-A	1
32		EPR-2/4/32/300	EPR-2/4/32/300-A	1
40		EPR-2/4/40/300	EPR-2/4/40/300-A	1
50		EPR-2/4/50/300	EPR-2/4/50/300-A	1
63	10mA	EPR-2/4/63/300	EPR-2/4/63/300-A	1
80		EPR-2/4/80/300	EPR-2/4/80/300-A	1



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## 1. Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16,20,25,32	2000	2000	240
40,50,63,80	2000	1000	120

## 2. Breaking time of residual current

In(A)	I $\Delta$ n(A)	Max.breaking time			5A,10A,20A,50A,100A,200A,500A
		I $\Delta$ n	2I $\Delta$ n	5I $\Delta$ n	
16,20,25,32,40,50,63,80	0.01,0.03,0.1,0.3	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)	Cross section area s (mm <sup>2</sup> )	Tightening torque (N.m)
16	2.5	2.5
20	2.5	2.5
25	4	2.5
32	6	2.5
40	10	2.5
50	16	2.5
63	16	2.5
80	25	2.5

## 4. Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008-1 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

