

RCCB SERIES

Residual Current Circuit Breaker



Products Overview of Residual Current Protective Devices

Product name	RCCB	
Product range	EPR-2	
Product picture		
Standard	IEC/EN 61008-1	
Number of poles	2P(1P+N)	4P(3P+N)
Electrical characteristics		
Rated current(A) In	16~80	
Rated voltage(V)	AC 240	AC 415
Rated residual current(mA)	10,30,100,300	
Rated conditional short-circuit current(kA)	6,10	
Tripping curve	-----	
Residual current operating characteristic	AC,A,S	
Catalogue page NO.	03-05	

EPR-2 Series

Residual Current Circuit Breaker

Standard	EN/IEC61008-1
Rated conditional short-circuit current(kA)	6,10
Rated current(A),I _n	16,20,25,32,40,50,63,80
Number of poles	2P(1P+N),4P(3P+N)
Rated sensitivity currents(mA),I _{Δn}	10,30,100,300
Rated residual non-operating current	0.5XI _{Δn}
Rated impulse withstand voltage U _{imp} (kV)	4
Rated voltage(V)	2pole AC 240
	4pole AC 415
Ambient temperature (°C)	-25~+40,Max.95%humidity
Residual current off--time at I _{Δn}	≤0.1s
Rated residual current making & breaking capacity, I _{Δm}	500A for I _n =16,25,32,40,50A 630A for I _n =63A 800A for I _n =80A
Type of trip	Electro-magnetic release
Terminal capacity	Cables up to 25mm ²
Protection degree	IP20
Installation	35mm DIN rail
Certification	   



EPR-2-2P



EPR-2-4P

EPR-2 Series

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	Rated current(A)	$I_{\Delta n}$	Type AC 	Type A 	Packing unit
 EPR-2-2P	16	10mA	EPR-2/2/16/10	EPR-2/2/16/10-A	6
	20		EPR-2/2/20/10	EPR-2/2/20/10-A	
	25		EPR-2/2/25/10	EPR-2/2/25/10-A	
	16	30mA	EPR-2/2/16/30	EPR-2/2/16/30-A	
	20		EPR-2/2/20/30	EPR-2/2/20/30-A	
	25		EPR-2/2/25/30	EPR-2/2/25/30-A	
	32		EPR-2/2/32/30	EPR-2/2/32/30-A	
	40		EPR-2/2/40/30	EPR-2/2/40/30-A	
	50		EPR-2/2/50/30	EPR-2/2/50/30-A	
	63		EPR-2/2/63/30	EPR-2/2/63/30-A	
	80	100mA	EPR-2/2/80/30	EPR-2/2/80/30-A	
	16		EPR-2/2/16/100	EPR-2/2/16/100-A	
	20		EPR-2/2/20/100	EPR-2/2/20/100-A	
	25		EPR-2/2/25/100	EPR-2/2/25/100-A	
	32		EPR-2/2/32/100	EPR-2/2/32/100-A	
	40		EPR-2/2/40/100	EPR-2/2/40/100-A	
	50		EPR-2/2/50/100	EPR-2/2/50/100-A	
	63	300mA	EPR-2/2/63/100	EPR-2/2/63/100-A	
	80		EPR-2/2/80/100	EPR-2/2/80/100-A	
	16		EPR-2/2/16/300	EPR-2/2/16/300-A	
	20		EPR-2/2/20/300	EPR-2/2/20/300-A	
	25		EPR-2/2/25/300	EPR-2/2/25/300-A	
	32		EPR-2/2/32/300	EPR-2/2/32/300-A	
	40		EPR-2/2/40/300	EPR-2/2/40/300-A	
	50		EPR-2/2/50/300	EPR-2/2/50/300-A	
	63		EPR-2/2/63/300	EPR-2/2/63/300-A	
	80		EPR-2/2/80/300	EPR-2/2/80/300-A	
 EPR-2-4P	16	10mA	EPR-2/4/16/10	EPR-2/4/16/10-A	3
	20		EPR-2/4/20/10	EPR-2/4/20/10-A	
	25		EPR-2/4/25/10	EPR-2/4/25/10-A	
	16	30mA	EPR-2/4/16/30	EPR-2/4/16/30-A	
	20		EPR-2/4/20/30	EPR-2/4/20/30-A	
	25		EPR-2/4/25/30	EPR-2/4/25/30-A	
	32		EPR-2/4/32/30	EPR-2/4/32/30-A	
	40		EPR-2/4/40/30	EPR-2/4/40/30-A	
	50		EPR-2/4/50/30	EPR-2/4/50/30-A	
	63	100mA	EPR-2/4/63/30	EPR-2/4/63/30-A	
	80		EPR-2/4/80/30	EPR-2/4/80/30-A	
	16		EPR-2/4/16/100	EPR-2/4/16/100-A	
	20		EPR-2/4/20/100	EPR-2/4/20/100-A	
	25		EPR-2/4/25/100	EPR-2/4/25/100-A	
	32		EPR-2/4/32/100	EPR-2/4/32/100-A	
	40		EPR-2/4/40/100	EPR-2/4/40/100-A	
	50		EPR-2/4/50/100	EPR-2/4/50/100-A	
	63	300mA	EPR-2/4/63/100	EPR-2/4/63/100-A	
	80		EPR-2/4/80/100	EPR-2/4/80/100-A	
	16		EPR-2/4/16/300	EPR-2/4/16/300-A	
	20		EPR-2/4/20/300	EPR-2/4/20/300-A	
	25		EPR-2/4/25/300	EPR-2/4/25/300-A	
	32		EPR-2/4/32/300	EPR-2/4/32/300-A	
	40		EPR-2/4/40/300	EPR-2/4/40/300-A	
	50		EPR-2/4/50/300	EPR-2/4/50/300-A	
	63		EPR-2/4/63/300	EPR-2/4/63/300-A	
	80		EPR-2/4/80/300	EPR-2/4/80/300-A	

EPR-2 Series

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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

Breaking time of residual current

Max.breaking time					
In(A)	I _{Δn} (A)	I _{Δn}	2 I _{Δn}	5 I _{Δn}	5-500A
16,20,25,32,40,50,63,80	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm ²)	Tightening torque(N.m)
16	2.5	2.5
20	2.5	
25	4	
32	6	
40	10	
50	16	
63	16	
80	25	

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

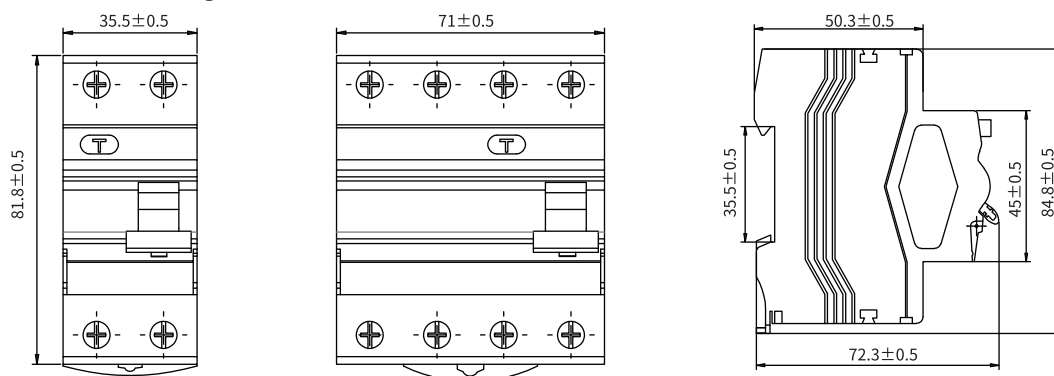
User-friendly connection of conductors and busbars

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)

Overall and mounting dimensions



EPR-2