RCCB SERIES

Residual Current Circuit Breaker

Products Overview of Residual Current Protective Devices

Product name	RCCB	
Product range	EPRi	
Product picture		
Standard	IEC/EN 61008-1	
Number of poles	2P(1P+N)	4P(3P+N)
	Electrical characteristics	
Rated current(A) In	25~100	
Rated voltage(V)	AC 240	AC 415
Rated residual current(mA)	30,100,300	
Rated conditional short-circuit current(kA)	6,10	
Tripping curve	------	
Residual current operating characteristic	AC,A,S	
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EPRi Series	Residual Current Circuit Breaker
Standard	EN/IEC61008-1
Rated conditional short-circuit current(kA)	6,10
Rated current(A),In	25,32,40,63,80,100
Number of poles	2P(1P+N),4P(3P+N)
Rated sensitivity currents(mA),I∆n	30,100,300
Rated residual non-operating current	0.5XI∆n
Rated impulse withstand voltage Uimp(kV)	4
Rated voltage(V)	2pole AC 240
	4pole AC 415
Ambient temperature (℃)	-25~+40,Max.95%humidity
Residual current off--time at I∆n	≤0.1s
Rated residual current making & breaking capacity, I∆m	500A for In=16,25,32,40A 630A for In=63A 800A for In=80A 1000A for In=100A
Type of trip	Electro-magnetic release
Terminal capacity	Cables up to 35mm²
Protection degree	IP20
Installation	35mm DIN rail
Certification	Intertek CE CB

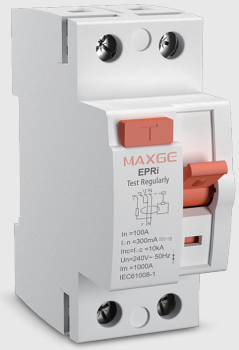
EPRi-2P

EPRi-4P

EPRi Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type AC+S ~+S	Packing unit
EPRi-2P  ~+S	25	30mA	EPRi-2/25/30-S	6
	32		EPRi-2/32/30-S	
	40		EPRi-2/40/30-S	
	63		EPRi-2/63/30-S	
	80		EPRi-2/80/30-S	
	100		EPRi-2/100/30-S	
	25	100mA	EPRi-2/25/100-S	
	32		EPRi-2/32/100-S	
	40		EPRi-2/40/100-S	
	63		EPRi-2/63/100-S	
	80		EPRi-2/80/100-S	
	100		EPRi-2/100/100-S	
	25	300mA	EPRi-2/25/300-S	
	32		EPRi-2/32/300-S	
	40		EPRi-2/40/300-S	
	63		EPRi-2/63/300-S	
	80		EPRi-2/80/300-S	
	100		EPRi-2/100/300-S	
EPRi-4P  ~+S	25	30mA	EPRi-4/25/30-S	3
	32		EPRi-4/32/30-S	
	40		EPRi-4/40/30-S	
	63		EPRi-4/63/30-S	
	80		EPRi-4/80/30-S	
	100		EPRi-4/100/30-S	
	25	100mA	EPRi-4/25/100-S	
	32		EPRi-4/32/100-S	
	40		EPRi-4/40/100-S	
	63		EPRi-4/63/100-S	
	80		EPRi-4/80/100-S	
	100		EPRi-4/100/100-S	
	25	300mA	EPRi-4/25/300-S	
	32		EPRi-4/32/300-S	
	40		EPRi-4/40/300-S	
	63		EPRi-4/63/300-S	
	80		EPRi-4/80/300-S	
	100		EPRi-4/100/300-S	

EPRi Series Residual Current Circuit Breaker

	Rated current(A)	I∆n	Type A+S 〰+S	Packing unit
EPRi-2P  〰+S	25	30mA	EPRi-2/25/30-A-S	6
	32		EPRi-2/32/30-A-S	
	40		EPRi-2/40/30-A-S	
	63		EPRi-2/63/30-A-S	
	80		EPRi-2/80/30-A-S	
	100		EPRi-2/100/30-A-S	
	25	100mA	EPRi-2/25/100-A-S	
	32		EPRi-2/32/100-A-S	
	40		EPRi-2/40/100-A-S	
	63		EPRi-2/63/100-A-S	
	80		EPRi-2/80/100-A-S	
	100		EPRi-2/100/100-A-S	
	25	300mA	EPRi-2/25/300-A-S	
	32		EPRi-2/32/300-A-S	
	40		EPRi-2/40/300-A-S	
	63		EPRi-2/63/300-A-S	
	80		EPRi-2/80/300-A-S	
	100		EPRi-2/100/300-A-S	
EPRi-4P  〰+S	25	30mA	EPRi-4/25/30-A-S	3
	32		EPRi-4/32/30-A-S	
	40		EPRi-4/40/30-A-S	
	63		EPRi-4/63/30-A-S	
	80		EPRi-4/80/30-A-S	
	100		EPRi-4/100/30-A-S	
	25	100mA	EPRi-4/25/100-A-S	
	32		EPRi-4/32/100-A-S	
	40		EPRi-4/40/100-A-S	
	63		EPRi-4/63/100-A-S	
	80		EPRi-4/80/100-A-S	
	100		EPRi-4/100/100-A-S	
	25	300mA	EPRi-4/25/300-A-S	
	32		EPRi-4/32/300-A-S	
	40		EPRi-4/40/300-A-S	
	63		EPRi-4/63/300-A-S	
	80		EPRi-4/80/300-A-S	
	100		EPRi-4/100/300-A-S	

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EPRi Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type AC ~	Type A ⩙	Packing unit
EPRi-2P  ~+⩙	25	30mA	EPRi-2/25/30	EPRi-2/25/30-A	6
	32		EPRi-2/32/30	EPRi-2/32/30-A	
	40		EPRi-2/40/30	EPRi-2/40/30-A	
	63		EPRi-2/63/30	EPRi-2/63/30-A	
	80		EPRi-2/80/30	EPRi-2/80/30-A	
	100		EPRi-2/100/30	EPRi-2/100/30-A	
	25	100mA	EPRi-2/25/100	EPRi-2/25/100-A	
	32		EPRi-2/32/100	EPRi-2/32/100-A	
	40		EPRi-2/40/100	EPRi-2/40/100-A	
	63		EPRi-2/63/100	EPRi-2/63/100-A	
	80		EPRi-2/80/100	EPRi-2/80/100-A	
	100		EPRi-2/100/100	EPRi-2/100/100-A	
	25	300mA	EPRi-2/25/300	EPRi-2/25/300-A	
	32		EPRi-2/32/300	EPRi-2/32/300-A	
	40		EPRi-2/40/300	EPRi-2/40/300-A	
	63		EPRi-2/63/300	EPRi-2/63/300-A	
	80		EPRi-2/80/300	EPRi-2/80/300-A	
	100		EPRi-2/100/300	EPRi-2/100/300-A	
EPRi-4P  ~+⩙	25	30mA	EPRi-4/25/30	EPRi-4/25/30-A	3
	32		EPRi-4/32/30	EPRi-4/32/30-A	
	40		EPRi-4/40/30	EPRi-4/40/30-A	
	63		EPRi-4/63/30	EPRi-4/63/30-A	
	80		EPRi-4/80/30	EPRi-4/80/30-A	
	100		EPRi-4/100/30	EPRi-4/100/30-A	
	25	100mA	EPRi-4/25/100	EPRi-4/25/100-A	
	32		EPRi-4/32/100	EPRi-4/32/100-A	
	40		EPRi-4/40/100	EPRi-4/40/100-A	
	63		EPRi-4/63/100	EPRi-4/63/100-A	
	80		EPRi-4/80/100	EPRi-4/80/100-A	
	100		EPRi-4/100/100	EPRi-4/100/100-A	
	25	300mA	EPRi-4/25/300	EPRi-4/25/300-A	
	32		EPRi-4/32/300	EPRi-4/32/300-A	
	40		EPRi-4/40/300	EPRi-4/40/300-A	
	63		EPRi-4/63/300	EPRi-4/63/300-A	
	80		EPRi-4/80/300	EPRi-4/80/300-A	
	100		EPRi-4/100/300	EPRi-4/100/300-A	

EPRi Series Residual Current Circuit Breaker

Life

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

Breaking time of residual current

Max.breaking time						
Leakage type	In(A)	I∆n(A)	I∆n	2 I∆n	5 I∆n	5-500A
A,AC	25,32,40,63,80,100	0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s
S		0.1,0.3	0.13s-0.5s	0.06s-0.2s	0.05s-0.15s	0.05s-0.15s

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)
25	4	2.5
32	6	
40	10	
63	16	
80	25	
100	35	

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

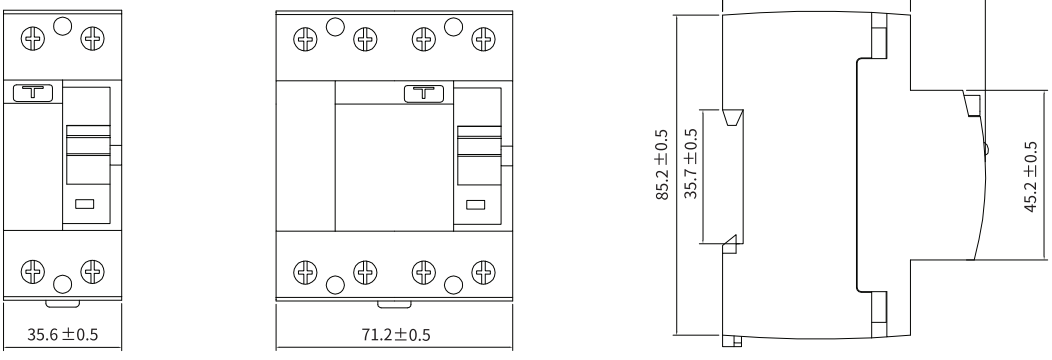
Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715

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

Type S Ⓢ:Selective type, RCD with non-operation time of atleast 40 ms

- ·High resistance to peak current up to 5 kA (IEC standardsrequire 3 kA).
- ·Meets conditions for tripping time 0.4 or 0.2 s (automatic disconnection).
- ·Type S is used as main circuit breaker or in combinationwith class II (C) surge voltage protectors.
- ·Significantly reduces unwanted trippings.

Overall and mounting dimensions



EPRi