MAXGE

EPRE Residential Series
Residual Current Circuit Breaker

Technical data

Standard	EN / IEC61008-1
Rated conditional short-circuit current, Inc	6kA,10KA
Protection	Ground fault
Rated current, In	40
Number of poles	2 pole
Rated sensitivity currents, I△n	30
Rated residual non-operating current	0.5 X I△n
Rated impulse withstand voltage Uimp	4000V
Rated voltages 2pole	240VAC
Ambient temperature (°C)	-25~+40,Max. 95%humidity
Residual current off-time at I△n	≤0.1s
Rated residual current making & breaking capacity, I△m	500A
Type of trip	Electro-magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	Cables up to 25mm²
Protection degree	IP20
Installation	35mm DIN rail

Rated current (A)	I△n	Type AC	Type A	Packing unit
40	30mA	EPR-2/40/30	EPR-2/40/30-A	1

1. Life

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

2. Breaking time of residual current

Max.breaking time					
In (A)	I△n(A)	I△n	2I△n	5I△n	5A,10A,20A,50A,100A,200A,500A
40	0.03	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 of lead (mm^2)	Tightening torque (N.m)
40	10	2.5

4. Features

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