

MGR Series Residual Current Circuit Breaker

Application

Standard	Confirming to IEC61008-1
Protection	Ground fault
Rated current, I_n	16,25,32,40,63,80,100A
Number of poles	2(1+N),4(3+N)pole
Rated sensitivity currents, $I_{\Delta n}$	10,30,100mA
Rated residual non-operating current	0.5 X $I_{\Delta n}$
Rated impulse withstand voltage U_{imp}	6000V
Rated voltages	2pole 240VAC 4pole 240/415VAC
Residual current off-time at $I_{\Delta n}$	$\leq 0.1s$
Rated residual current making & breaking capacity, $I_{\Delta mA}$	500A for $I_n=16,25,32,40A$ 630A for $I_n=63,80,100A$
Rated conditional short-circuit current, I_{nc}	6kA
Type of trip	Electro-magnetic release
Type of terminal	Lug type and pin type
Terminal capacity	Cables up to 35mm ²
Degree of protection	IP20
Installation	35mm DIN rail
Slot size	45mm

1. Life

I_n	Operating cycles		Operation frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16, 25, 32	2000	2000	240
40, 63, 80, 100	2000	1000	120

2. Breaking time of residual current

Breaking time of residual current($I_{\Delta n}$ is ratings following						
I_n A	$I_{\Delta n}$ (A)	$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5A,10A, 20A, 50A, 100A, 200A, 500A	
16,25,32,40,63,80,100	0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s	Max. Breaking time

3. Wiring

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

Rated current I_n (A)	Cross section area of lead (mm ²)	Tightening torque(N·m)
16	2.5	2.5
25	4	2.5
32	6	2.5
40	10	2.5
63	16	2.5
80	25	2.5
100	35	2.5

4. Features

- Without auxiliary power supply, the product is designed with strong immunity and extending protection range against residual current
- With higher rated ultimate short circuit, up to 6kA
- High reliable operation thanks to special design terminals
- Even under the pollution environment, the working reliability of the product will never be changed
- Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties
- Convenient mounting
- More flexible and reliable operation with a handle

5. Overall and mounting dimensions

