

## SGBR-32M Series (Electronic)







Residual Current Operated Circuit Breaker(RCBO)

### Technical data

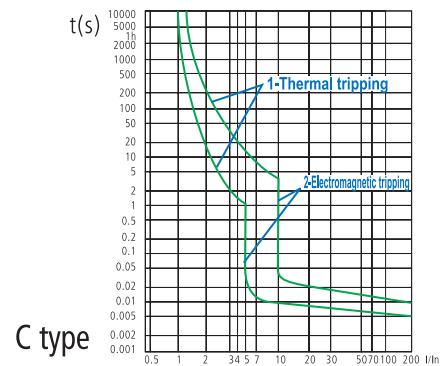
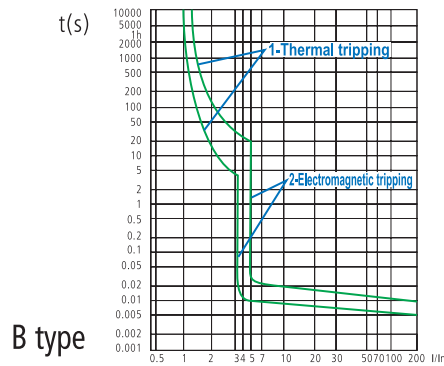
Standard	EN/ IEC61009-1
Breaking Capacity	4.5kA,6kA
Number of poles	1 P+N(1 module)
Rated current,In	6,10,13,16,20,25,32A
Rated voltage	240VAC
Rated Tripping Current	10,30,100,300mA
Residual current off time	≤0.1s
Characteristic	B,C Curve
Electrical endurance	4000
Mechanical endurance	10000
Ambient temperature ( °C)	-25~+40, Max. 95%humidity
Connection terminal	Flexible conductor 16mm <sup>2</sup> Rigid conductor 25mm <sup>2</sup>
Type of terminal	Lug type and Pin type
Width	17.8mm



SGBR-32M

SGBR-32M-RCBO	Rated current(A)	$I_{\Delta n}$	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
	<b>10mA</b>	6	SGBR-32M-B6/10	SGBR-32M-C6/10	SGBR-32M-B6/10-A	SGBR-32M-C6/10-A	1
		10	SGBR-32M-B10/10	SGBR-32M-C10/10	SGBR-32M-B10/10-A	SGBR-32M-C10/10-A	1
		13	SGBR-32M-B13/10	SGBR-32M-C13/10	SGBR-32M-B13/10-A	SGBR-32M-C13/10-A	1
		16	SGBR-32M-B16/10	SGBR-32M-C16/10	SGBR-32M-B16/10-A	SGBR-32M-C16/10-A	1
		20	SGBR-32M-B20/10	SGBR-32M-C20/10	SGBR-32M-B20/10-A	SGBR-32M-C20/10-A	1
		25	SGBR-32M-B25/10	SGBR-32M-C25/10	SGBR-32M-B25/10-A	SGBR-32M-C25/10-A	1
		32	SGBR-32M-B32/10	SGBR-32M-C32/10	SGBR-32M-B32/10-A	SGBR-32M-C32/10-A	1
Type AC 	<b>30mA</b>	6	SGBR-32M-B6/30	SGBR-32M-C6/30	SGBR-32M-B6/30-A	SGBR-32M-C6/30-A	1
		10	SGBR-32M-B10/30	SGBR-32M-C10/30	SGBR-32M-B10/30-A	SGBR-32M-C10/30-A	1
		13	SGBR-32M-B13/30	SGBR-32M-C13/30	SGBR-32M-B13/30-A	SGBR-32M-C13/30-A	1
		16	SGBR-32M-B16/30	SGBR-32M-C16/30	SGBR-32M-B16/30-A	SGBR-32M-C16/30-A	1
		20	SGBR-32M-B20/30	SGBR-32M-C20/30	SGBR-32M-B20/30-A	SGBR-32M-C20/30-A	1
		25	SGBR-32M-B25/30	SGBR-32M-C25/30	SGBR-32M-B25/30-A	SGBR-32M-C25/30-A	1
		32	SGBR-32M-B32/30	SGBR-32M-C32/30	SGBR-32M-B32/30-A	SGBR-32M-C32/30-A	1
	<b>100mA</b>	6	SGBR-32M-B6/100	SGBR-32M-C6/100	SGBR-32M-B6/100-A	SGBR-32M-C6/100-A	1
		10	SGBR-32M-B10/100	SGBR-32M-C10/100	SGBR-32M-B10/100-A	SGBR-32M-C10/100-A	1
		13	SGBR-32M-B13/100	SGBR-32M-C13/100	SGBR-32M-B13/100-A	SGBR-32M-C13/100-A	1
		16	SGBR-32M-B16/100	SGBR-32M-C16/100	SGBR-32M-B16/100-A	SGBR-32M-C16/100-A	1
		20	SGBR-32M-B20/100	SGBR-32M-C20/100	SGBR-32M-B20/100-A	SGBR-32M-C20/100-A	1
		25	SGBR-32M-B25/100	SGBR-32M-C25/100	SGBR-32M-B25/100-A	SGBR-32M-C25/100-A	1
		32	SGBR-32M-B32/100	SGBR-32M-C32/100	SGBR-32M-B32/100-A	SGBR-32M-C32/100-A	1
Type A 	<b>300mA</b>	6	SGBR-32M-B6/300	SGBR-32M-C6/300	SGBR-32M-B6/300-A	SGBR-32M-C6/300-A	1
		10	SGBR-32M-B10/300	SGBR-32M-C10/300	SGBR-32M-B10/300-A	SGBR-32M-C10/300-A	1
		13	SGBR-32M-B13/300	SGBR-32M-C13/300	SGBR-32M-B13/300-A	SGBR-32M-C13/300-A	1
		16	SGBR-32M-B16/300	SGBR-32M-C16/300	SGBR-32M-B16/300-A	SGBR-32M-C16/300-A	1
		20	SGBR-32M-B20/300	SGBR-32M-C20/300	SGBR-32M-B20/300-A	SGBR-32M-C20/300-A	1
		25	SGBR-32M-B25/300	SGBR-32M-C25/300	SGBR-32M-B25/300-A	SGBR-32M-C25/300-A	1
		32	SGBR-32M-B32/300	SGBR-32M-C32/300	SGBR-32M-B32/300-A	SGBR-32M-C32/300-A	1

## 1. Curves



## 2. Breaking time of residual current

$I_n(A)$	$I_{\Delta n}(A)$	Max. breaking time			
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5A,10A,20A,50A,100A,200A,500A
6-32	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 $I_n(A)$	Cross section area $s(mm^2)$	Tightening torque (N.m)
6	1	1.2
10	1.5	1.2
16-20	2.5	1.2
25	4	1.2
32	6	1.2

## 4. Features

- Switching and isolation function.
- Protection against overload and short-circuit currents.
- Protection against the effects of sinusoidal alternating earth fault currents.
- Protection against indirect contacts and additional protection against direct contacts.
- Protection against fire hazard caused by insulation faults.
- Used in residential building and distribution boards.

## 5. Overall and mounting dimensions

