SGNL Series (Electronic)
Residual Current Operated Circuit Breaker(RCBO)

Technical data

Standard	EN / IEC61009-1
Breaking Capacity	3KA,4.5KA,6KA
Number of poles	1P+N(1 module)
Rated currents	6,10,16, 20, 25, 32, 40A
Rated voltage	240VAC
Rated Tripping Current	10mA,30mA,100mA
Residual current off time	≤0.1s
Characteristic	B.C
Residual tripping characteristics	A, AC
Isolation application (IEC60947-2)	Yes
Insulation voltage	500V
Dielectric rigidity	2500V
Protection degree outside	IP20
Inside enclosure	IP40
Operating temperature	-5/+40°C
Storage temperature	-25/+70°C
Electrical endurance	10000
Mechanical endurance	20000
Altitude	≤2000m
Relative humidity	+20℃,≤95%,±40℃ ≤50%
Width	17.5mm /module

SGNL6K-40 RCBO

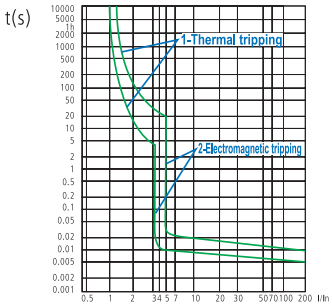
On developing

Type AC

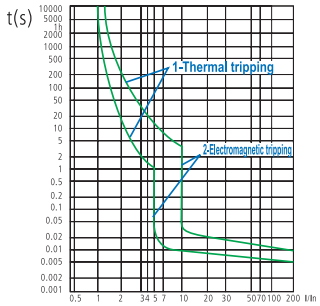
Type A

Rated current(A)	I△n	B curve	C curve	Packing unit
6	10mA	SGNL6K-40/B6/10	SGNL6K-40/C6/10	12
10		SGNL6K-40/B10/10	SGNL6K-40/C10/10	12
16		SGNL6K-40/B16/10	SGNL6K-40/C16/10	12
20		SGNL6K-40/B20/10	SGNL6K-40/C20/10	12
25		SGNL6K-40/B25/10	SGNL6K-40/C25/10	12
32		SGNL6K-40/B32/10	SGNL6K-40/C32/10	12
40		SGNL6K-40/B40/10	SGNL6K-40/C40/10	12
6	30mA	SGNL6K-40/B6/30	SGNL6K-40/C6/30	12
10		SGNL6K-40/B10/30	SGNL6K-40/C10/30	12
16		SGNL6K-40/B16/30	SGNL6K-40/C16/30	12
20		SGNL6K-40/B20/30	SGNL6K-40/C20/30	12
25		SGNL6K-40/B25/30	SGNL6K-40/C25/30	12
32		SGNL6K-40/B32/30	SGNL6K-40/C32/30	12
40		SGNL6K-40/B40/30	SGNL6K-40/C40/30	12
6	100mA	SGNL6K-40/B6/100	SGNL6K-40/C6/100	12
10		SGNL6K-40/B10/100	SGNL6K-40/C10/100	12
16		SGNL6K-40/B16/100	SGNL6K-40/C16/100	12
20		SGNL6K-40/B20/100	SGNL6K-40/C20/100	12
25		SGNL6K-40/B25/100	SGNL6K-40/C25/100	12
32		SGNL6K-40/B32/100	SGNL6K-40/C32/100	12
40		SGNL6K-40/B40/100	SGNL6K-40/C40/100	12
6	10mA	SGNL6K-40/B6/10-A	SGNL6K-40/C6/10-A	12
10		SGNL6K-40/B10/10-A	SGNL6K-40/C10/10-A	12
16		SGNL6K-40/B16/10-A	SGNL6K-40/C16/10-A	12
20		SGNL6K-40/B20/10-A	SGNL6K-40/C20/10-A	12
25		SGNL6K-40/B25/10-A	SGNL6K-40/C25/10-A	12
32		SGNL6K-40/B32/10-A	SGNL6K-40/C32/10-A	12
40		SGNL6K-40/B40/10-A	SGNL6K-40/C40/10-A	12
6	30mA	SGNL6K-40/B6/30-A	SGNL6K-40/C6/30-A	12
10		SGNL6K-40/B10/30-A	SGNL6K-40/C10/30-A	12
16		SGNL6K-40/B16/30-A	SGNL6K-40/C16/30-A	12
20		SGNL6K-40/B20/30-A	SGNL6K-40/C20/30-A	12
25		SGNL6K-40/B25/30-A	SGNL6K-40/C25/30-A	12
32		SGNL6K-40/B32/30-A	SGNL6K-40/C32/30-A	12
40		SGNL6K-40/B40/30-A	SGNL6K-40/C40/30-A	12
6	100mA	SGNL6K-40/B6/100-A	SGNL6K-40/C6/100-A	12
10		SGNL6K-40/B10/100-A	SGNL6K-40/C10/100-A	12
16		SGNL6K-40/B16/100-A	SGNL6K-40/C16/100-A	12
20		SGNL6K-40/B20/100-A	SGNL6K-40/C20/100-A	12
25		SGNL6K-40/B25/100-A	SGNL6K-40/C25/100-A	12
32		SGNL6K-40/B32/100-A	SGNL6K-40/C32/100-A	12
40		SGNL6K-40/B40/100-A	SGNL6K-40/C40/100-A	12

1. Curves



B type



C type

2. Temperature derating

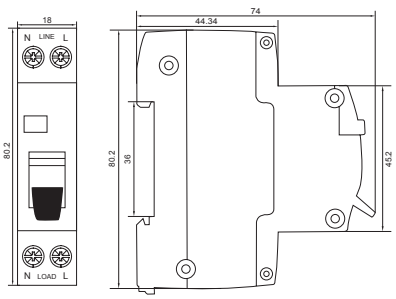
Temperature	-10ºC	0ºC	10ºC	20ºC	30ºC	40ºC	50ºC	60ºC
Temperature compensation coefficient of rated current	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

3. Wiring

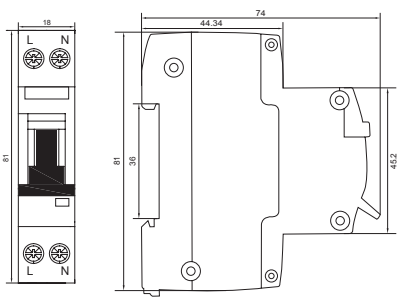
The suitable conductors should be used for connection, see table for relative parameters.

Rated current In(A)	Nominal cross section area (mm^2)	Tightening torque (N.m)
6	1	2
10	1.5	2
16~20	2.5	2
25	4	2
32	6	2
40	10	2

4. Overall and mounting dimensions



SGNL3K-32



SGNL-4.5K-40/SGNL-6K-40