

META
MEC

Miniature Circuit Breakers

Residual Current Circuit Breakers



Residual Current Circuit Breakers Earth Leakage Circuit Breakers

Type RKP

- 2 pole(1P+N)
Current rating up to 32A
Overcurrent trip characteristic : B, C, D
Residual current sensitivity 15, 30, 100, 300mA
Overcurrent & Ground fault protection
IEC 60898, IEC 61009-1



Type RKN

- 2, 4 pole
Current rating up to 63A
Residual current sensitivity 30, 100, 300mA
IEC 61008-1






Type 32KGR

- 2 pole
Current rating up to 30A
Residual current sensitivity 15, 30mA
Overcurrent & Ground fault protection
KS, JIS



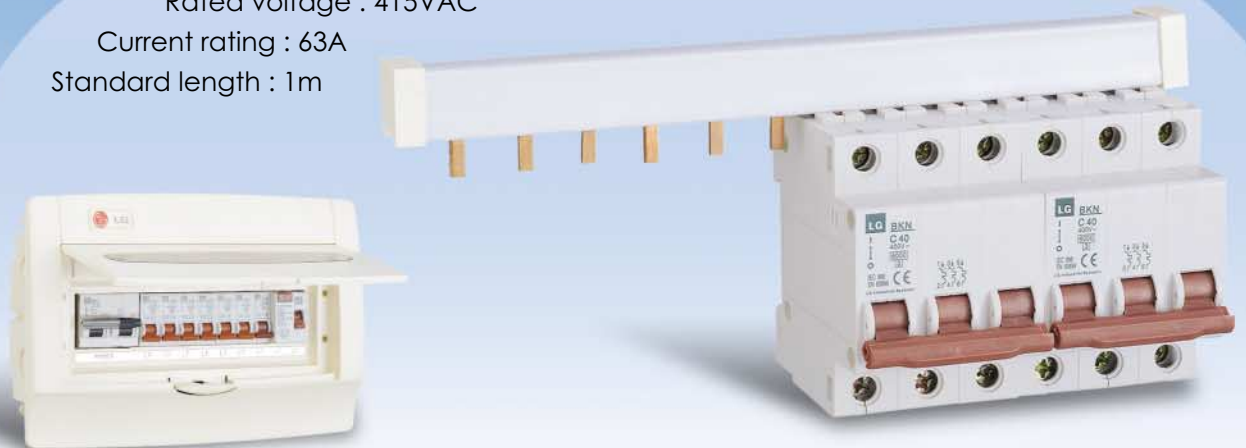
<p>Type BB101</p>	<p>For single pole device</p>	<p>Type BB301</p>	<p>For 3-pole device</p>
<p>Type BB102</p>		<p>Type BB302</p>	
<p>Type BB201</p>	<p>For 2-pole device</p>	<p>Type BB401</p>	<p>For 4-pole device</p>
<p>Type BB202</p>		<p>Type BB402</p>	

Miniature Circuit Breakers




10kA		<p>Type BKH 1 ~ 4 pole C, D characteristic</p> 	
6kA (4.5kA)	<p>Type BKN(BKM) 1~4 pole B, C characteristic</p> 		
3kA	<p>Type BKP 2(1P+N) pole B,C,D characteristic</p> 		
	32A	63A	100A

Standard Bus Bars

Applicable to the 18mm wide module devices
 - RKN MCBs, BKD disconnectors
 Rated voltage : 415VAC
 Current rating : 63A
 Standard length : 1m



Miniature Circuit Breakers

Frame size	32AF	63AF	
			
Type	BKP	BKN(BKM)	
Protection	Overload and short circuit	Overload and short circuit	
Rated current	2,4,6,10,16,20,32A	BKN : 1,2,3,4,6,10,16,20,25,32,40,50,63A BKM : 2,4,6,10,16,20,25,32,40,50A	
Characteristic	B, C, D curve	B, C curve	
Number of poles	1p+N	1p, 1p+N, 2p, 3p, 3p+N, 4p	
Breaking capacity		1 pole 2~4 pole	
	3kA at 230VAC	6kA at 230VAC	6kA at 230/400VAC
1A			
2A			
3A			
4A			
6A			
10A			
16A			
20A			
25A			
32A			
40A			4.5kA at 230/400VAC
50A			
63A			
80A			
100A			
Standard	IEC 60898	IEC 60898	
Type of trip	Thermal magnetic release	Thermal magnetic release	
Electrical endurance	20000 operations	6000 operations	
Mount	On 35mm DIN rail	On 35mm DIN rail	
Width	9mm per pole	17.8mm per pole	
Terminal	Lug type(cable up to 10mm ²)	Lug type(cable up to 25mm ²)	
Auxiliary switch, AX Optional		 <p>1 changeover contact 6A at 240VAC, 3A at 415VAC 2A at 48VAC, 1A at 125VAC</p> <p>Lug terminal cable capacity 2.5mm²</p> <p>9mm wide</p>	
Dimension	See drawing 1	See drawing 2	
Characteristic curve	See curve 1	See curve 1	

100AF



BKH

Overload and short circuit

63, 80, 100A

C, D curve

1p, 2p, 3p, 4p

1 pole

2~4 pole

10kA at 230VAC

10kA at 230/400VAC

IEC 60947-2

Thermal magnetic release

6000 operations

On 35mm DIN rail

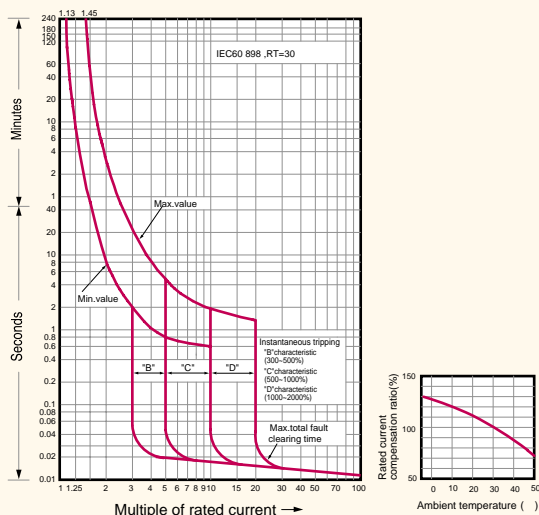
27mm per pole

Lug type(cable up to 50mm²)

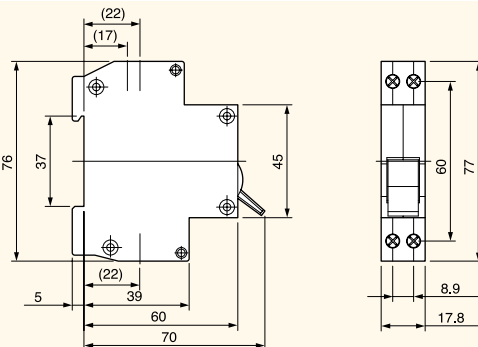
See drawing 3

See curve 1

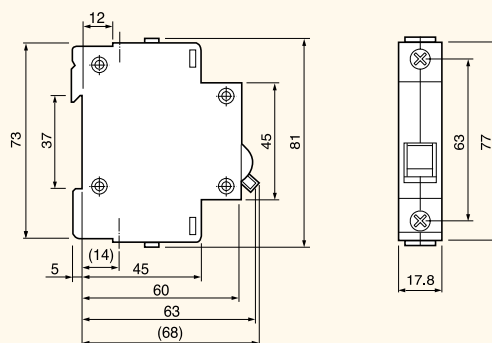
Curve. 1



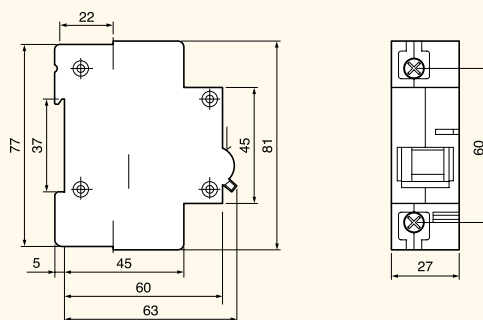
Drawing 1: Type BKP





Drawing 2: Type BKN



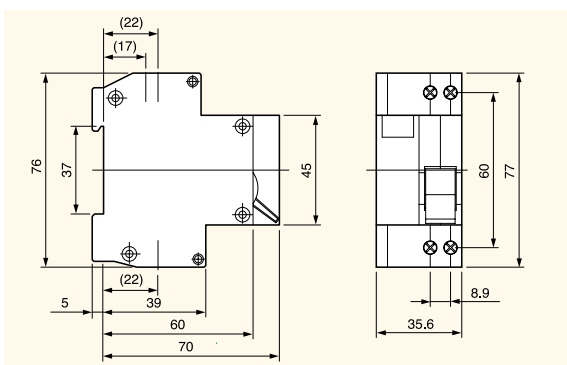
Drawing 3: Type BKH



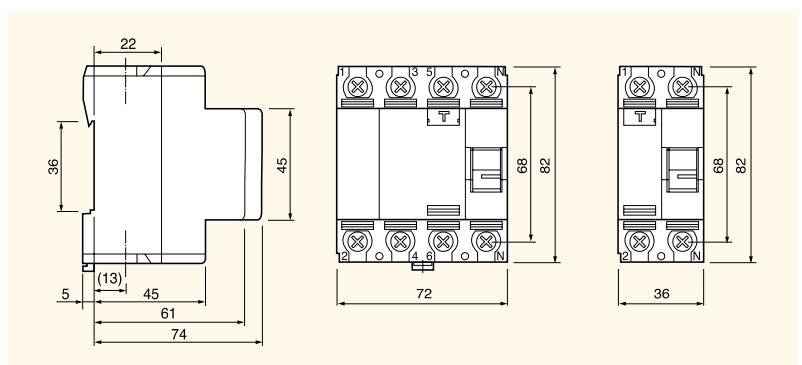
Residual Current Circuit Breakers

Frame size	32AF	63AF
		
Type	RKP	RKN
Protection	Ground fault and overcurrent	Ground fault
Rated current, I _n	2,4,6,10,16,20,32A	25, 32, 40, 63A
Rated residual current		
Operating, I _n	15, 30, 100, 300mA(non-adjustable)	30, 100, 300mA(non-adjustable)
Non-operating, I _{no}	0.5I _n	0.5I _n
Number of poles	1P+N	2, 4 pole
Rated voltage	240VAC	240VAC(2p), 240/415VAC(4p)
Residual current off-time	0.1 sec.	0.1 sec.
Standard	IEC 60898, IEC 61009-1	IEC 61008-1
Type of trip		
Ground fault	Electro-magnetic	Electro-magnetic
Overcurrent	Thermal-magnetic	N.A
Breaking capacity	3kA	
Conditional short circuit capacity		1.5kA for I _n =25, 32, 40A 3kA for I _n =63A
Electrical endurance	20000 operations	6000 operations
Mount	On 35mm DIN rail	On 35mm DIN rail
Width	9mm per pole	18mm per pole
Terminal	Lug type(cable up to 10mm ²)	Lug type(cable up to 35mm ²)
Dimension	See drawing 4	See drawing 5
Characteristic curve	See curve 1	

Drawing 4: Type RKP



Drawing 5: Type RKN



Switch disconnectors

30AF



Frame size

100AF



32KGRa

32KGRb

Ground fault and overcurrent
15, 20, 30A

15, 30mA (non-adjustable)

0.5I_n

2 pole

110/220VAC

0.03 sec.

KS, JIS

Electronic

Bimetallic

1.5kA

2.5kA

6000 operations

On 35mm DIN rail

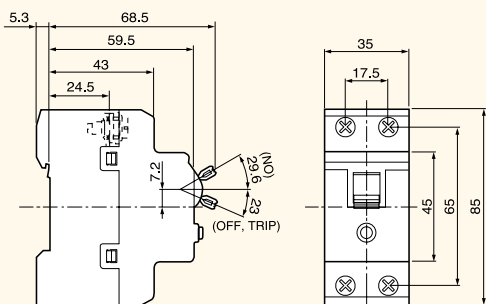
35mm

Screw clamp type (cable up to 25mm²)

See drawing 6

See curve 2

Drawing 6: Type KGR



Type

BKD

Rated current, I_n

63, 80, 100A

Number of poles

1p, 2p, 3p, 4p

Rated voltage

230/400VAC

Standard

IEC 60669

Electrical endurance

63A

20000 operations

80, 100A

10000 operations

Mount

On 35mm DIN rail

Width

17.8mm per pole

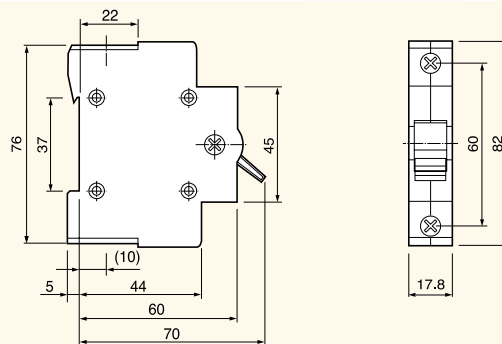
Terminal

Lug type (cable up to 50mm²)

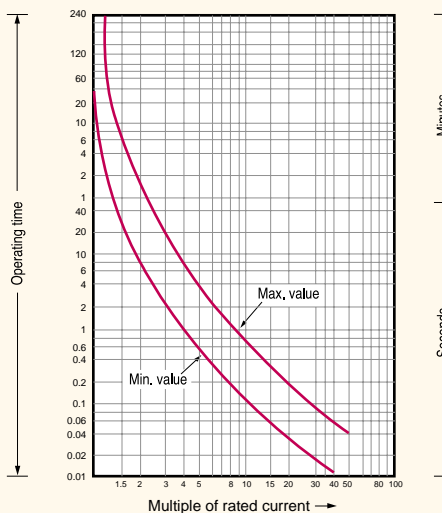
Dimension

See drawing 7

Drawing 7: Type BKD



Curve. 2

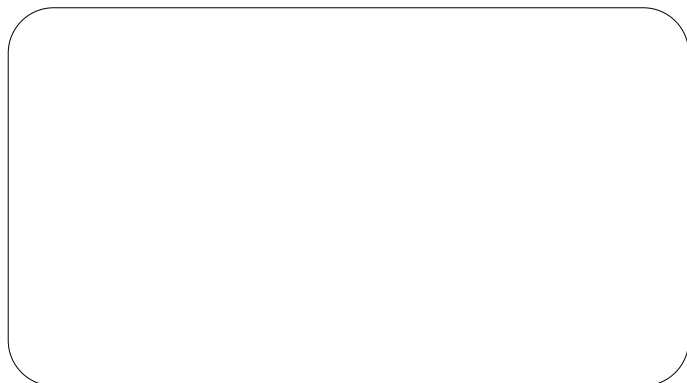




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Global network

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