

# MINIATURE CIRCUIT BREAKERS

MCB is applicable to electric circuit with rated voltage 230/400V, 240/415V AC, frequency 50/60Hz and rated current is up to 63A.

The product provides against overload and short circuit and equipments in household and commercial installations.

MCB is also used as non-frequent changeover of electric circuit.

BK63 series	BTK63 series	Alarm switch (for BK63)	Auxiliary switch
			

## TRIPPING CHARACTERISTICS

### ■ Type B

Instant tripping characteristics : 3–5I<sub>n</sub>

Application : computers and electronic equipments

### ■ Type C

Instant tripping characteristics : 5–10I<sub>n</sub>

Application : general load such as bulbs , motors

### ■ Type D

Instant tripping characteristics : 10–20I<sub>n</sub>

Application : high current surge device such as transformers, motors with heavy load

## COLORED HANDLES


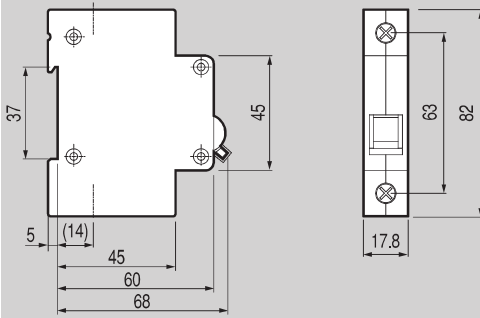
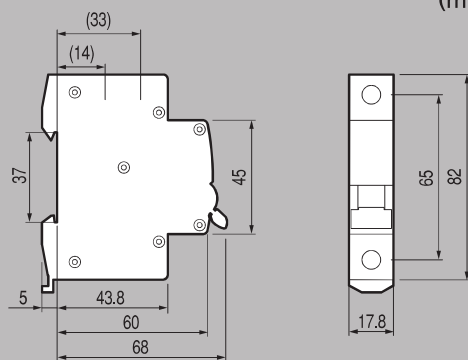
Easy to distinguish the rated current of the MCB by means of colored handle.

1A	Black
2A	Pink
3A	Pink
4A	Brown
6A	Green
10A	Red
16A	Grey
20A	Blue
25A	Yellow
32A	Purple
40A	Black
50A	White
63A	Copper-colored

## APPROVAL

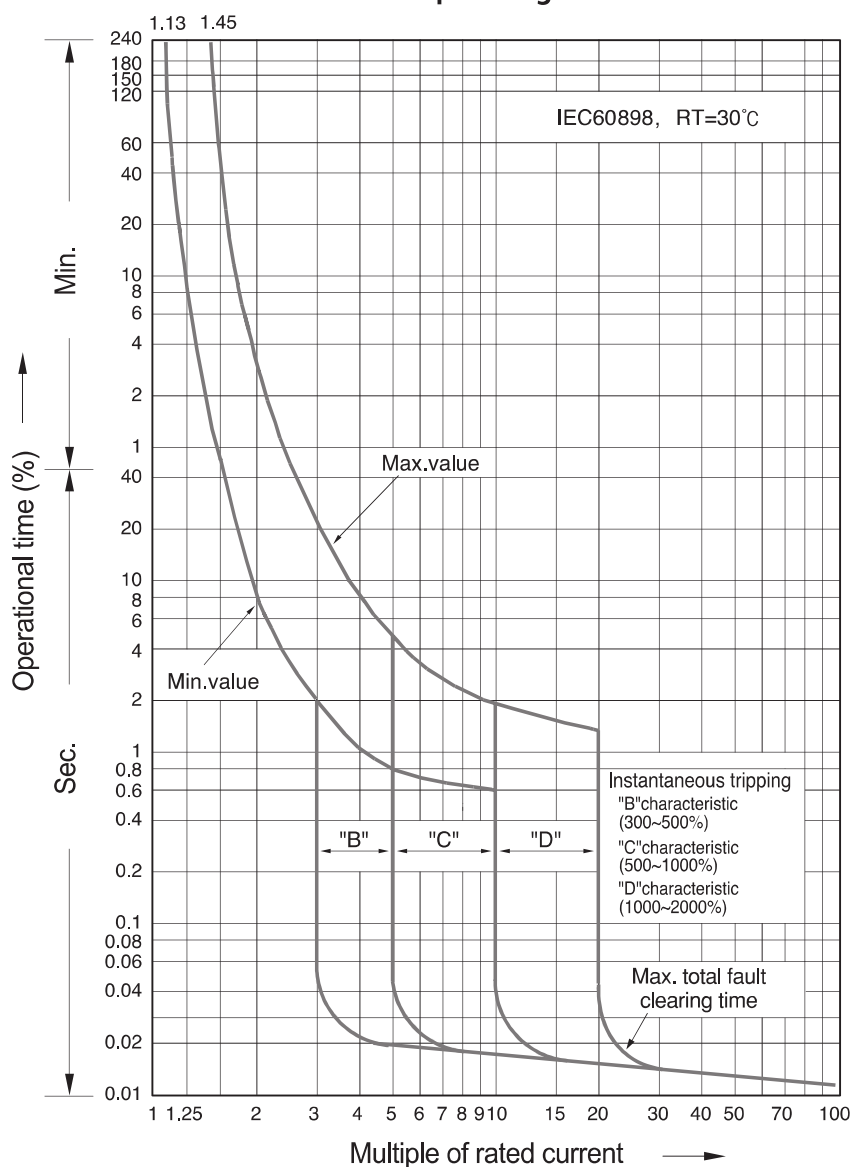
### ■ CE marking

### ■ CB Certificate

Type	BK63		BTK63	
Protection	Overload and short circuit			
Rated current	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A			
Characteristics	B, C, D curve			
Number of poles	1P, 1P+N, 2P, 3P, 3P+N, 4P			
Breaking capacity	1P	2, 3, 4P	1P	2, 3, 4P
	6kA at 230/400VAC	6kA at 400VAC	10kA at 240/415VAC	10kA at 415VAC
Standards	IEC60898			
Approval	SEMKO CB scheme		KEMA CB scheme	
Type of trip	Thermal magnetic release			
Electrical endurance	6,000 operations		8,000 operations	
Installation	35mm DIN rail			
Width	17.8mm per pole			
Type of terminal	Lug type (Cable up to 25mm <sup>2</sup> )			
Alarm switch (Optional)	<div></div> <div><b>1changeover contact</b> 6A at 230VAC,3A at 415VAC(AX) 6A at 230VAC,3A at 415VAC(AL) 2A at 48VAC,1A at 125VAC</div> <div><b>Lug terminal</b> Cable capacity 2.5mm<sup>2</sup> <b>9mm wide</b></div>		Not applicable	
Dimension	<div>(mm)</div> <div></div>		<div>(mm)</div> <div></div>	

## ■ Characteristic curve For type BK63, BTK63

### Operating curves



## ■ Compensation table

[Temperature compensation table](IEC60898-1)

In(A)	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
1	1.05	1.02	1.0	0.98	0.95	0.93	0.9	0.89	0.85
2	2.03	2.04	2.0	1.96	1.92	1.88	1.84	1.8	1.74
3	3.18	3.09	3.0	2.91	2.82	2.7	2.61	2.49	2.37
4	4.24	4.12	4.0	3.88	3.75	3.64	3.52	3.36	3.24
6	5.24	6.12	6.0	5.88	5.76	5.64	5.52	5.4	5.3
10	10.6	10.3	10.0	9.7	9.3	9.0	8.6	8.2	7.8
16	16.8	16.5	16.0	15.5	15.2	14.7	14.2	13.8	13.3
20	21.0	20.6	20.0	19.4	19.0	18.4	17.8	17.4	16.8
25	26.2	25.7	25.0	24.2	23.7	23.0	22.2	21.5	20.7
32	33.5	32.9	32.0	31.4	30.4	29.8	28.4	28.2	27.5
40	42.0	41.2	40.0	38.8	38.0	36.8	35.6	34.4	33.2
50	52.5	51.5	50.0	48.5	47.4	45.5	44.0	42.5	40.5
63	66.2	64.9	63.0	61.0	58.0	56.7	54.2	51.7	49.2

[1:113% In 12:145% In according to IEC60898-1]

## ■ Compensation curve

