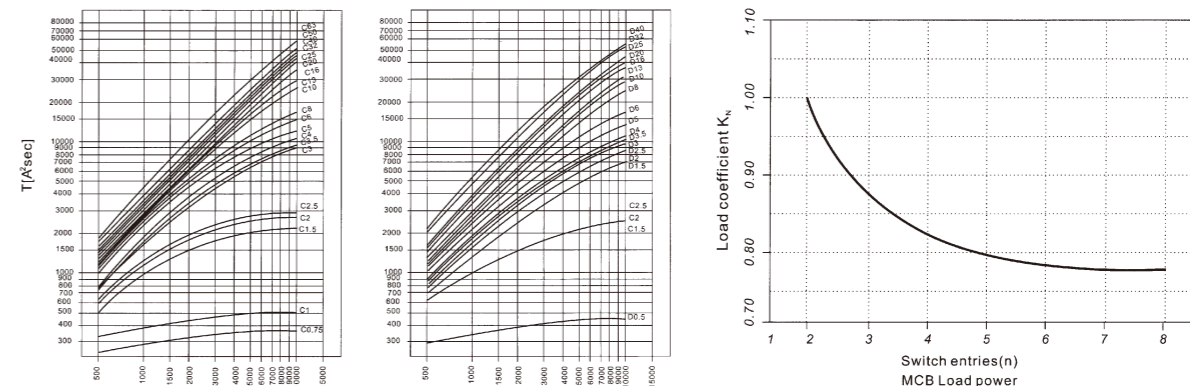


# ELB10K Series Miniature Circuit Breaker

## Application

Standard	Confirming to EN / IEC60898
Breaking capacity	10kA
Protection	Against overload and short circuit
Rated current $I_n$	0.5,1,2,3,4,6,10,13,16,20,25,32,40,50,63A
Rated voltage	1pole 230/400V AC 50/60Hz 2,3,4pole 400V AC 50/60Hz Rated insulation voltage $U_i$ : 500V Rated impulse withstand voltage $U_{imp}$ : 6000V Energy limiting class: 3
Ambient temperature	-5°C to +40°C pursuant to EN / IEC60898
Characteristic	Thermal operating limit: $(1.13-1.45) \times I_n$ Magnetic operating: B: $(3-5) \times I_n$ C: $(5-10) \times I_n$ D: $(10-20) \times I_n$
Number of poles	1P,1P+N,2P,3P,3P+N and 4P
Type of trip	Thermal / magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	16mm <sup>2</sup> flexible or 25mm <sup>2</sup> rigid up to 25A ratings 25mm <sup>2</sup> flexible or 35mm <sup>2</sup> rigid for 32A to 63A ratings
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.5mm per pole

## 1. Curves



## 2. Overcurrent protecting characteristics

No	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1~63	cold state	1.13In	$t \leq 1h$	Non-trip	
2	1~63	upon the previous test	1.45In	$t < 1h$	trip	Setting current up to specified value steadily in 5S
3	$I_n \leq 32$	cold state	2.55In	$1s < t < 60s$	trip	
	$I_n > 32$	cold state	2.55In	$1s < t < 120s$	trip	
4	1~63	cold state	3In	$t \leq 0.1s$	Non-trip	B type
	1~63	cold state	5In	$t < 1.1s$	trip	B type
	1~63	cold state	5In	$t \leq 0.1s$	Non-trip	C type
	1~63	cold state	10In	$t < 1.1s$	trip	C type
	1~63	cold state	10In	$t \leq 0.1s$	Non-trip	D type
	1~63	cold state	20In	$t < 1.1s$	trip	D type

## 3. Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	8000	240/h 120/h	0.5~32 40~63
Mechanical endurance	20000	240/h	0.5~63

## 4. Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism. Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

## 5. Overall and mounting dimensions

