



EU

Sweden



## UB Miniature Circuit Breaker

### 1. General

- 1.1 Application: For protecting cables and equipment against overload and short circuit.
- 1.2 General rules for choosing MCB.
  - a. Technical data of the network at the point considered:
    - The earthing systems (TNS, TNC),
    - Short-circuit current at the circuit-breaker installation point, which must always be less than the breaking capacity of this device,
    - Network normal voltage.
  - b. There are 2 curve characteristics for UB magnetic operation:
    - B curve (3-5  $I_n$ ) protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.
    - C curve (5-10  $I_n$ ) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
- 1.3 Detailed certificates information, please refer to Certificates Table on P153.



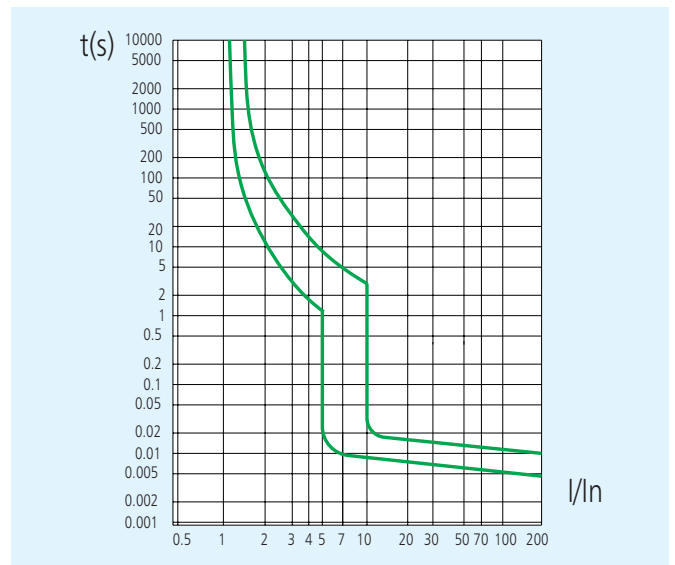
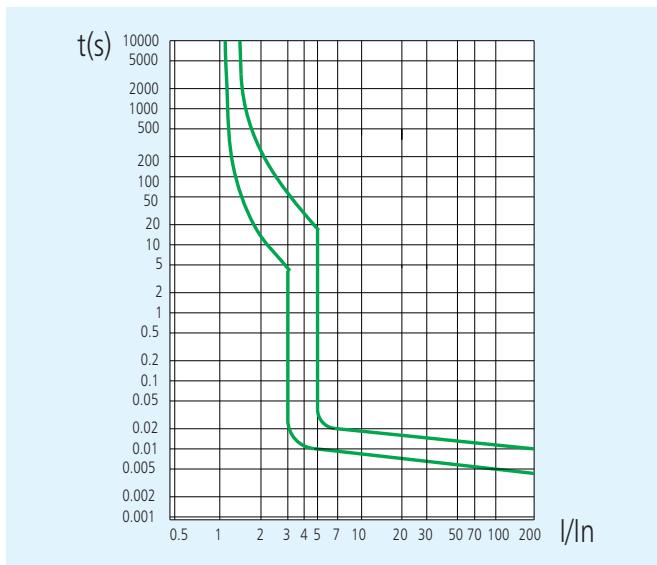
### 3. Technical Information

#### 3.1 Curves

UB MCB is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.

B curve

C curve



#### 3.2

	Standard		IEC/EN 60898-1
Electrical features	Rated current $I_n$	A	6, 10, 13, 16, 20, 25, 32, 40
	Poles		1P, 2P, 3P, 4P
	Rated voltage $U_e$	V	230/400
	Insulation voltage $U_i$	V	500
	Rated frequency		50/60Hz
	Rated breaking capacity	A	6000
	Rated impulse withstand voltage(1.2/50) $U_{imp}$	V	4000
	Dielectric test voltage at ind. Freq. for 1 min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B, C

	Standard		IEC/EN 60898-1
Mechanical features	Electrical life		4,000
	Mechanical life		10,000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$ )	°C	-5...+40(Special application please refer to P24 for temperature compensation correction)
	Storage temperature	°C	-25...+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for cable	mm <sup>2</sup>	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm <sup>2</sup>	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs.	18
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection		From top and bottom	

3.3 Please refer to table below for temperature compensation correction

Rated current In (A)	Temperature compensation coefficient under various operational temperature								
	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	55°C	60°C
6	1.20	1.14	1.09	1.05	1.00	0.96	0.80	0.75	0.70
10~32	1.18	1.12	1.08	1.04	1.00	0.96	0.92	0.88	0.84
40	1.16	1.12	1.07	1.03	1.00	0.97	0.87	0.83	0.80

#### 4. Overall and Mounting Dimensions (mm)

