



UB Miniature Circuit Breaker

1. General

1.1 Function

protection of circuits against short-circuit currents,
protection of circuits against overload currents,
switch,
isolation.

1.2 Selection

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.

Tripping curves:

B curve (3-5I_n)

protection for people and big length cables in TN and IT
systems.

C curve (5-10I_n)

protection for resistive and inductive loads with low inrush
current.

1.3 Approvals and certificates

Detailed information, please refer to Certificates Table
on the last page.

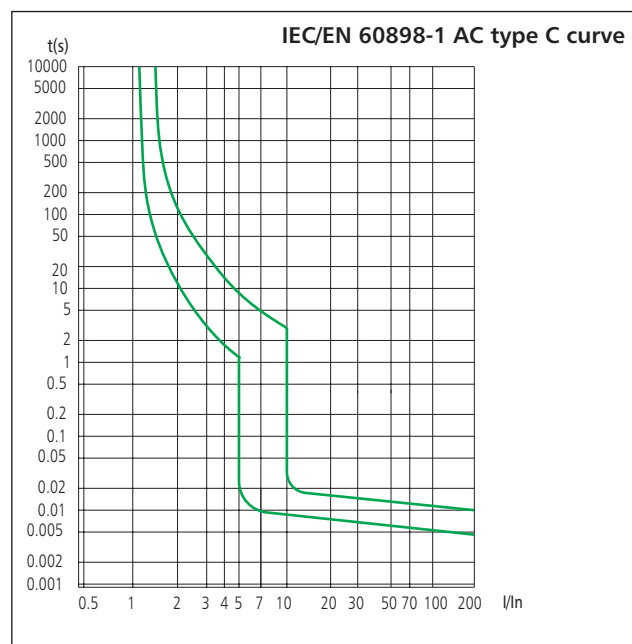
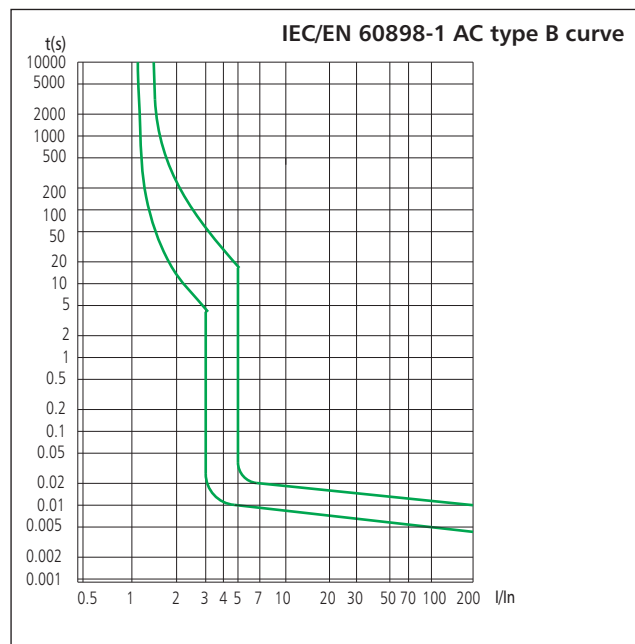


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2. Technical data

2.1 Curves

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



2.2

	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	6, 10, 16, 20, 25, 32, 40
	Poles		1P, 2P, 3P, 4P
	Rated voltage Ue	V	230/400~240/415
	Insulation voltage Ui	V	500
	Rated frequency		50/60Hz
	Rated breaking capacity	A	6000
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1 min	kV	2
	Pollution degree		2
Mechanical features	Thermo-magnetic release characteristic		B, C
	Electrical life		4, 000
	Mechanical life		10, 000
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average ≤35℃)	℃	-5...+40
	Storage temperature	℃	-25...+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for cable	mm ²	1~25
		AWG	17~3
	Terminal size top/bottom for busbar	mm ²	1~10
		AWG	17~7
	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

2.3 Temperature derating

The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed.

The reference temperature is 30°C

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

3. Overall and mounting dimensions (mm)

