



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.



SAA

2. Ordering information

Curve B, C

Icn=6000A (In: 6~40A)

★ UB, 1P



In (A)	CTN	Order Code	
		Curve B	Curve C
		RoHS	RoHS
6	144	984713	984728
10	144	984714	984729
13	144	984715	984730
15	144	984716	984731
16	144	984717	984732
20	144	984718	984733
25	144	984719	984734
32	144	984720	984735
40	144	984721	984736

Curve B, C

Icn=6000A (In: 6~40A)

★ UB, 2P



In (A)	CTN	Order Code	
		Curve B	Curve C
		RoHS	RoHS
6	72	984758	984773
10	72	984759	984774
13	72	984760	984775
15	72	984761	984776
16	72	984762	984777
20	72	984763	984778
25	72	984764	984779
32	72	984765	984780
40	72	984766	984781

Curve B, C

Icn=6000A (In: 6~40A)

★ UB, 3P



In (A)	CTN	Order Code	
		Curve B	Curve C
		RoHS	RoHS
6	48	984803	984818
10	48	984804	984819
13	48	984805	984820
15	48	984806	984821
16	48	984807	984822
20	48	984808	984823
25	48	984809	984824
32	48	984810	984825
40	48	984811	984826

Curve B, C

Icn=6000A (In: 6~40A)

★ UB, 4P

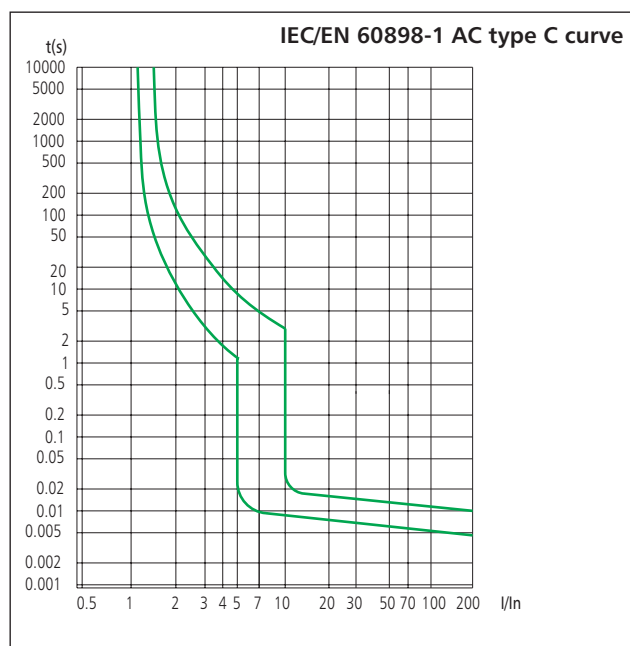
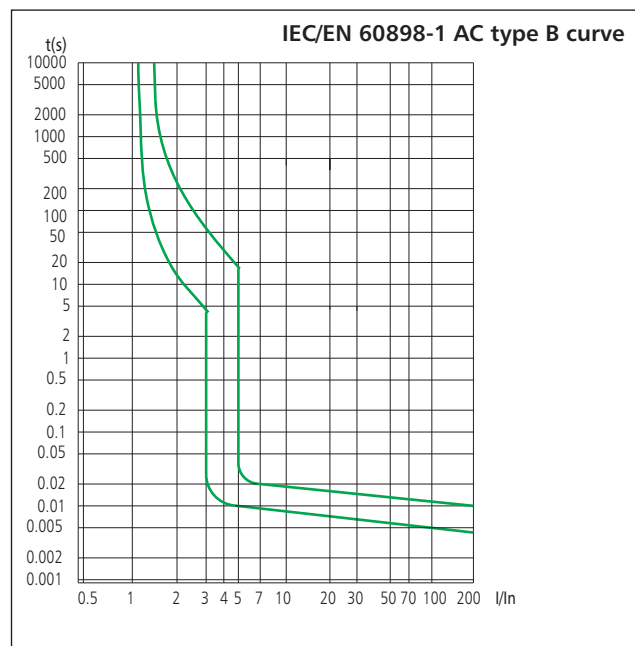


In (A)	CTN	Order Code	
		Curve B	Curve C
		RoHS	RoHS
6	36	984848	984863
10	36	984849	984864
13	36	984850	984865
15	36	984851	984866
16	36	984852	984867
20	36	984853	984868
25	36	984854	984869
32	36	984855	984870
40	36	984856	984871

3. Technical data

3.1 Curves

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



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	230/400~240/415
	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
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	°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 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

3.3 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 I_n (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)

