



Miniature Circuit Breakers for universal currents

Series EP100 UC

EN/IEC 60898-2

6000	T15
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DIN VDE 0641

EN/IEC 60947-2 10kA

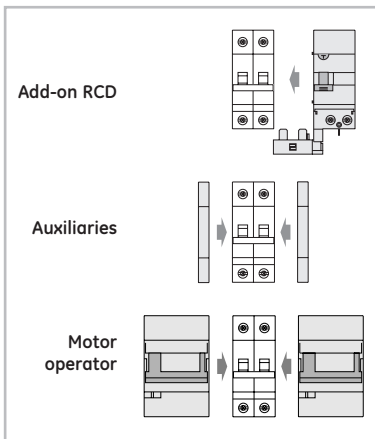
Applications



Standards / Marking

EN/IEC 60898-2, DIN VDE 0641

Add-on devices



- Add-on RCD ● pg B.32
- Auxiliary contacts ● pg C.4
- Motor operator ● pg C.7
- Shunt trip ● pg C.8
- Undervoltage release ● pg C.8
- Panel board switch ● pg C.8

- Accessories ● pg A.50
- Busbars ● pg E.2
- More technical data ● website
- Dimensions ● pg A.80

Performance

Thermal setting I_n	(A)	0.5 - 63
Rated voltage AC U_n	(V)	230/400 250/500/880 \equiv
Minimum operating voltage U_{Bmin}	(V)	12 12 \equiv
Tripping characteristics		B-C
Mechanical/electrical endurance		20000/10000
Tropicalisation acc. to EN/IEC 60068-2		95%RH at 55°C
Terminal capacity flexible/rigid cable	(mm ²)	25-35
Poles ⁽¹⁾		1, 2, 4 ⁽²⁾
Weight	(g/pole)	120

Short-circuit capacity

AC/DC acc. to EN/IEC 60898-2⁽⁵⁾

Poles	V	$I_{cn}=I_{cs}$ (kA)
1	125 DC	10
	250 DC	6
	230/400 AC	6
2	250 DC	10
	500 DC	6
	400 AC	6
4	800 DC	6

AC/DC acc. to EN/IEC 60947-2

Poles	V	I_{cu} (kA)
1	220 DC	10 ⁽³⁾
2	440 DC	10 ⁽³⁾
1	230 AC	6 ⁽⁴⁾
2	400 AC	6 ⁽⁴⁾

(1) Polarity labeling to be respected due to the permanent magnet in the MCB

(2) For 4P execution open circuit voltage $U_{CO} = 1000 \equiv$

(3) T = 4ms

(4) 4.5kA for 50A and 63A

(5) After a switching of the net with more than 6kA in AC it should not be used in DC

Series EP100 UC - 10kA - characteristics B-C



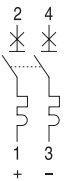
1P
1 mod.



In (A)	B		C		Pack.
	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
0.5	-	-	EP101UCC0.5	673301	12
1	-	-	EP101UCC01	673302	12
2	-	-	EP101UCC02	673303	12
4	-	-	EP101UCC04	673305	12
6	EP101UCB06	673333	EP101UCC06	673306	12
10	EP101UCB10	673334	EP101UCC10	673308	12
16	EP101UCB16	673335	EP101UCC16	673310	12
20	EP101UCB20	673336	EP101UCC20	673311	12
25	EP101UCB25	673337	EP101UCC25	673312	12
32	EP101UCB32	673338	EP101UCC32	673313	12
40	EP101UCB40	673339	EP101UCC40	673314	12
50	EP101UCB50	673340	EP101UCC50	673315	12
63	EP101UCB63	673341	EP101UCC63	673316	12



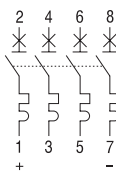
2P
2 mod.



0.5	-	-	EP102UCC0.5	673317	6
1	-	-	EP102UCC01	673318	6
2	-	-	EP102UCC02	673319	6
4	-	-	EP102UCC04	673321	6
6	EP102UCB06	673342	EP102UCC06	673322	6
10	EP102UCB10	673343	EP102UCC10	673324	6
16	EP102UCB16	673344	EP102UCC16	673326	6
20	EP102UCB20	673345	EP121UCC20	673327	6
25	EP102UCB25	673346	EP102UCC25	673328	6
32	EP102UCB32	673347	EP102UCC32	673329	6
40	EP102UCB40	673348	EP102UCC40	673330	6
50	EP102UCB50	673349	EP102UCC50	673331	6
63	EP102UCB63	673350	EP102UCC63	673332	6



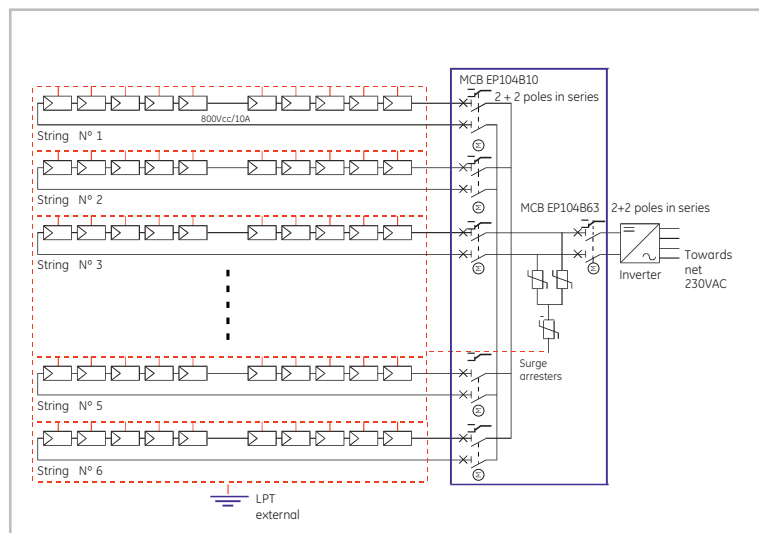
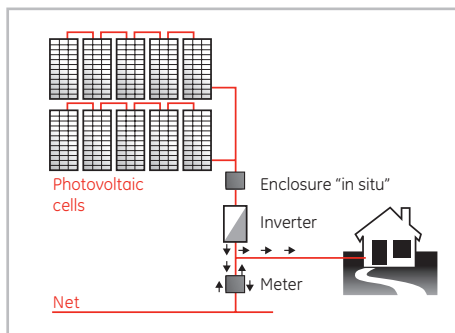
4P
4.5 mod. (1)



10	EP104UCB10	690200			3
16	EP104UCB16	688029			3
20	EP104UCB20	688026			3
25	EP104UCB25	691580			3
32	EP104UCB32	691581			3
40	EP104UCB40	688027			3
63	EP104UCB63	688028			3

(1) Including auxiliary contact CAH (central half module)
Line to be connected to bottom terminals 1, 7 load to 3, 5.

Example of the wiring in a Photovoltaic application



Example of installation in enclosure "in situ"

