



Miniature circuit breakers for universal current

Series E90S UC

EN/IEC 60898-2 6000 T15
DIN VDE 0641

EN/IEC 60947-2 10kA

Applications

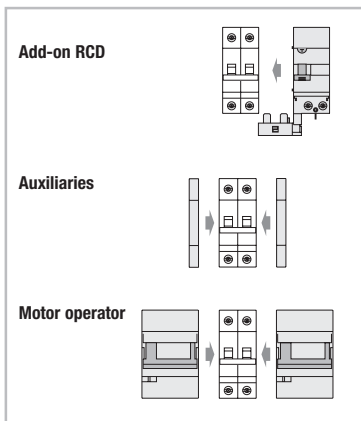


Standards/Marking

EN/IEC 60898-2
DIN VDE 0641



Add-on devices



- Add-on RCD ● pg B.15
- Auxiliary contacts ● pg A.24
- Shunt trip ● pg A.24
- Undervoltage release ● pg A.24
- Motor operator ● pg A.24

- Accessories ● pg A.25
- Busbars ● chapter C
- Dimensions ● pg A.7

Performance

Thermal setting (In)	(A)	0.5-63
Rated voltage AC (Un)	(V)	230/400 250/500/880 ⁽¹⁾ ≡
Minimum operating voltage UB min	(V)	12 12 ≡
Tripping characteristics		B-C
Mechanical/electrical endurance		20000/10000
Tropicalisation acc.to IEC 60068-2		95%RH at 55°C
Terminal capacity flexible/rigid cable	(mm ²)	25-35
Poles ⁽¹⁾		1, 2, 4
Weight	(g/pole)	125
Thermal operating limit		(1.13 - 1.45) x In
Magnetic operating		B: (3 - 5) x In C: (5 - 10) x In

Short-circuit capacity

AC/DC acc. to IEC 60898-2⁽²⁾




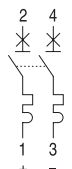
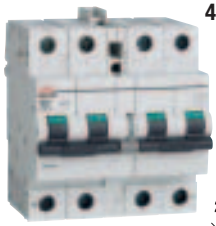
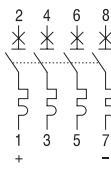
Poles	V	Icn=Ics (kA) ⁽³⁾
1	125 DC	10
	220 DC	6
	230/400 AC	6
2	250 DC	10
	440 DC	6
	400 AC	6
4	880 DC	6

AC/DC acc. to IEC 60947-2

Poles	V	Icu (kA)
1	125 DC	20 ⁽⁴⁾
	220 DC	10 ⁽⁴⁾
2	440 DC	10 ⁽⁴⁾
1	230 AC	6 ⁽⁵⁾
1	440 AC	6 ⁽⁵⁾

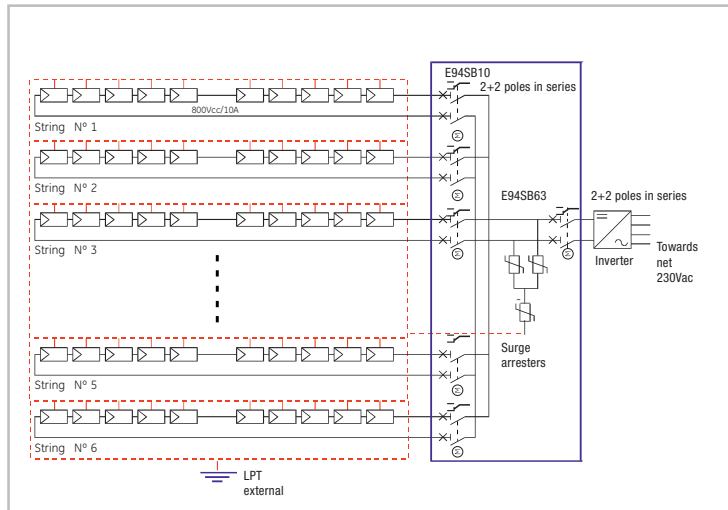
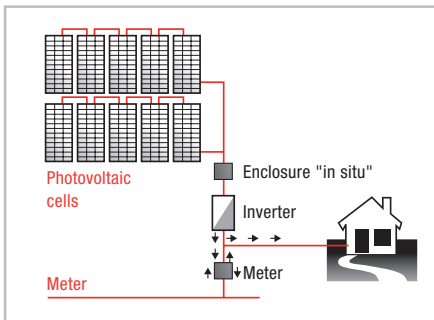
- (1) For 4P execution open circuit voltage $U_{co} = 1000V \equiv$
- (2) After a switching of the net with more than 6kA in AC, is use in DC impossible
- (3) Polarity labeling to be respected due to the permanent magnet in the MCB
- (4) T = 4ms
- (5) 4.5kA for 50A & 63A

Series E90S UC - 10kA - AC/DC MCBs

Pole width	Rated current [A]	B		C		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
1P 1 mod.  	0.5	-	-	E91S UC C0.5	553304	12
	1	-	-	E91S UC C01	553305	12
	2	-	-	E91S UC C02	553306	12
	3	-	-	E91S UC C03	553307	12
	4	-	-	E91S UC C04	553308	12
	6	E91S UC B06	553271	E91S UC C06	553309	12
	8	E91S UC B08	553272	E91S UC C08	553310	12
	10	E91S UC B10	553273	E91S UC C10	553311	12
	13	E91S UC B13	553274	E91S UC C13	553312	12
	16	E91S UC B16	553275	E91S UC C16	553313	12
	20	E91S UC B20	553276	E91S UC C20	553314	12
	25	E91S UC B25	553277	E91S UC C25	553315	12
	32	E91S UC B32	553278	E91S UC C32	553316	12
	40	E91S UC B40	553279	E91S UC C40	553317	12
	50	E91S UC B50	553280	E91S UC C50	553318	12
63	E91S UC B63	553281	E91S UC C63	553319	12	
2P 2 mod.  	0.5	-	-	E92S UC C0.5	553320	6
	1	-	-	E92S UC C01	553321	6
	2	-	-	E92S UC C02	553322	6
	3	-	-	E92S UC C03	553323	6
	4	-	-	E92S UC C04	553324	6
	6	E92S UC B06	553290	E92S UC C06	553325	6
	8	E92S UC B08	553291	E92S UC C08	553326	6
	10	E92S UC B10	553292	E92S UC C10	553327	6
	13	E92S UC B13	553293	E92S UC C13	553328	6
	16	E92S UC B16	553294	E92S UC C16	553329	6
	20	E92S UC B20	553295	E92S UC C20	553330	6
	25	E92S UC B25	553296	E92S UC C25	553331	6
	32	E92S UC B32	553297	E92S UC C32	553332	6
	40	E92S UC B40	553298	E92S UC C40	553333	6
	50	E92S UC B50	553299	E92S UC C50	553334	6
63	E92S UC B63	553300	E92S UC C63	553335	6	
4P 4.5 mod. (1)  	10	E94S UC B10	691213	-	-	3
	16	E94S UC B16	691214	-	-	3
	20	E94S UC B20	691215	-	-	3
	32	E94S UC B32	691600	-	-	3
	40	E94S UC B40	691216	-	-	3
	63	E94S UC B63	691217	-	-	3

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

Example of wiring in a photovoltaic application



Example of installation in enclosure "in situ"