

## Miniature circuit breakers **A**

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*Residual current circuit breaker* **B**

*Busbar systems* **C**

*Comfort functions/Energy control* **D**

*Residential enclosures* **E**

*Contactors/Soft starters/Speed drives* **F**

*Overload relays* **G**

*Control and signalling units* **H**

*Limit switches* **I**

*Manual motor starters* **J**

*Moulded case circuit breakers* **K**

*Air circuit breakers* **L**

*Fuse systems/Loadbreak disconnectors* **M**

*Industrial enclosures* **N**

*Wiring devices* **O**

*Numerical index* **X**

**Five good reasons to appreciate the AEG miniature circuit breakers: Line protection - People protection**



**1. Total protection**

AEG Low Voltage MCB's provide the best answer to the obligation of circuit protection. They give comprehensive protection to circuits against:

- Overload currents (0.5A to 125A)
- Short-circuit currents (3000 up to 50000 A)
- Earth fault currents (30mA up to 1000mA) - combined with RCD's
- The handle being sealable or equipped with padlock bracket avoids dangerous operation changes (ON / OFF)
- The handle provides a clear indication of the contact position
- Top and bottom protection caps give safe installation facilities
- Sealing accessories for top and bottom connections allow protection of original wiring
- Adequate printing of all data on the front provides long-term identification



**2. Total quality**

- The MCB's are able to accomplish the line protection for more than 10.000 times, by a simple manual, or motor operated reset
- The quality of the shells can cope with the hardest ambient circumstances (-25°C to +55°C)
- All MCB's are current limiting MCB's, the let-through energy being reduced far below the standard limits. Energy limiting class: 3
- The low let-through peak-currents ensure the long life-time of the contacts of isolators or loadbreak switches upstream
- The emission of ionised gases are limited to the severest restrictions (35 mm grid distance)



**3. A wide range**

AEG Low Voltage offers:

- MCB's for household in accordance with: IEC 60898 - B, C and D tripping characteristics
- MCB's for industry in accordance with: IEC 60947-2 - instantaneous tripping 3-5 In, 5-10 In, 10-20 In
- MCB's in accordance with: IEC 1009 - BS 4293



**4. Stock reducing system**

The residential and industrial markets are covered by five appropriate series of MCB's: Series E.

Their external advantages allow the consumer to extend the MCB at any time with:

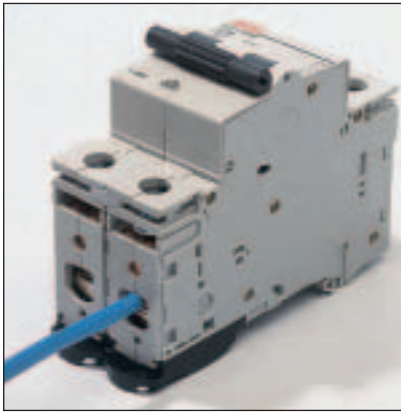
- A wide range of RCD's / people protection
- Five types of display contacts
- Shunt trip releases
- Accessories



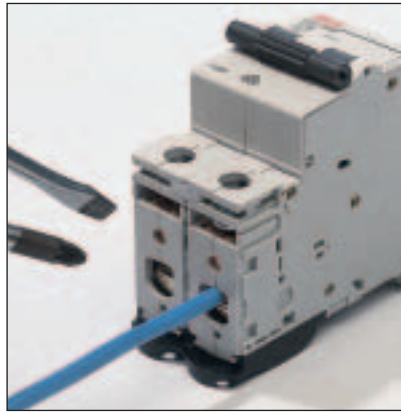
**5. Time saving connections**

Insulated or non insulated busbar systems with maximum connection possibilities, can be very fast put on the top or bottom terminals of the MCB's.

## Benefits of the MCB's Series E90



Safety terminal:  
 - easy wiring  
 - no wrong fixing  
 - protection degree IP20



Pozidriv and slot screw head.  
 Torque up to 4.5 Nm.



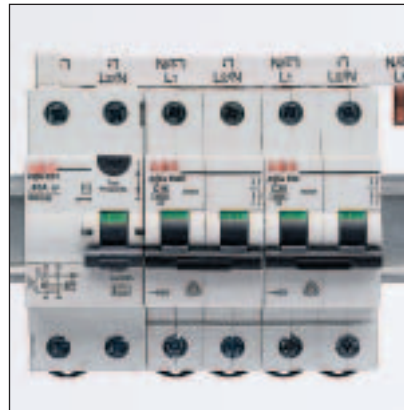
Incoming/outgoing terminal capacity up to 35 mm<sup>2</sup> or 2 x 16 mm<sup>2</sup>.



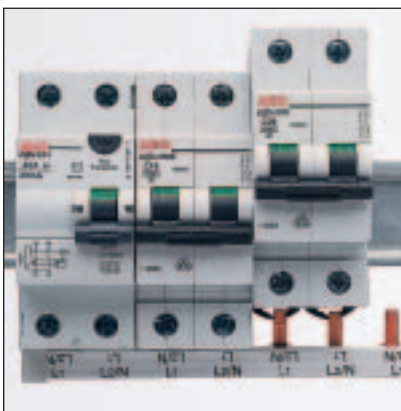
Terminal side for fork busbar is isolated between the poles.



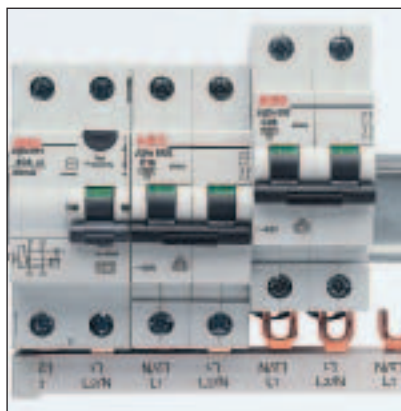
Two positions of the DIN-rail clip.  
 Easy installation.



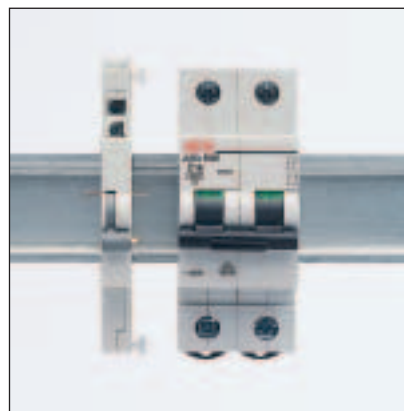
MCB's and RCCB's can be connected with PIN type busbar at the top terminals.



MCB's and RCCB's can be connected with PIN type busbar at the bottom terminals, with easy DIN-rail extraction.



MCB's and RCCB's can be connected with FORK type busbar at the bottom terminals, with easy DIN-rail extraction.


















Auxiliary contacts can be added on the left hand side of the MCB.

Notes

A large grid of red lines on a white background, intended for taking notes. The grid consists of 20 columns and 30 rows of small squares.

## Selection table MCB's

Page no.	Series	Applications	Poles	Add-on Tripping devices characteristic	Rating current (A)	Short-circuit capacity (kA)	
A.6	E90N		1, 2, 3, 4	yes	B	6-40	3, 5, 10
				yes	C	2-40	3, 5, 10
A.8	E90E		1, 1+N, 2, 3, 3+N, 4	yes	B	6-40	4.5, 6, 14
				yes	C	2-40	4.5, 6, 14
A.10	E90	  	1, 1+N, 2, 3, 3+N, 4	yes	B	6-63	6, 10, 20
				yes	C	0.5-63	6, 10, 20
				yes	D	0.5-63	6, 10, 20
A.12	E90S	 	1, 1+N, 2, 3, 3+N, 4	yes	B	6-63	10, 15, 30
				yes	C	0.5-63	10, 15, 30
				yes	D	0.5-63	10, 15, 30
A.14	E90X		1, 2, 3, 4	yes	B	6-63	15, 20, 25
				yes	C	0.5-63	15, 20, 25
				yes	D	0.5-63	15, 20, 25
A.16	E90S UC		1, 2	yes	B	6-63	6, 10
				yes	C	0.5-63	6, 10
A.18	E880	 	1, 2, 3, 4	yes	B	80-125	6, 10
				yes	C	80-125	6, 10
				yes	D	80-125	6, 10
A.20	E880S	 	1, 2, 3, 4	yes	B	80-125	10, 15
				yes	C	80-125	10, 15
				yes	D	80-125	10, 15
A.22	S90	 	1, 3x1, 3, 1+N, 3+N	(1)	Cs	10-100	25
			1, 3x1	(1)	E	10-100	25
			1, 3x1	(1)	F	10-100	25

(1) on request



B : 3-5 In

IEC 60898

C : 5-10 In

IEC 60947-2

D : 10-20 In

NEMA AB1

### Compact MCB's

1P+N in 1 module  
2P in 1 module  
3P in 2 modules  
4P in 2 modules

Series EC, page A.33-A.49

### Screwless MCB's

6 kA  
10 kA

Series E...P, page A.51-A.63

## Miniature circuit breakers

### Series E90N



**DIN VDE 0641** **3kA**  
**EN/IEC 60898** 3000

3

**EN/IEC 60947-2** **5kA**

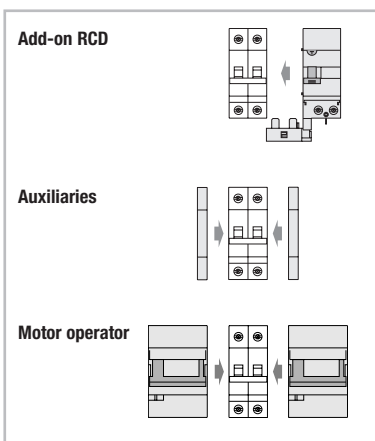
### Applications



### Approval/Marking



### 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

### Performances

<b>Thermal setting In</b>	(A)	2-40
<b>Rated voltage AC Un</b>	(V)	240/415
<b>Minimum operating voltage <math>U_{B\ min}</math></b>	(V)	12
<b>Tripping characteristics</b>		B-C
<b>Selectivity class</b>		3
<b>Mechanical/electrical endurance</b>		20000/10000
<b>Tropicalisation acc.to IEC 60068-2</b>		95%RH at 55°C
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	25-35
<b>Poles</b>		1, 2, 3, 4
<b>Weight</b>	(g/pole)	120
<b>Thermal operating limit</b>		(1.13 - 1.45) x In
<b>Magnetic operating</b>		B: (3 - 5) x In C: (5 - 10) x In

### Short-circuit capacity

#### Acc. to EN/IEC 60898

Poles	V	Icn/lcs (kA)
1-4	230/400	3

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

Poles	V	Icu (kA)
1	240	5
	127	-
	240	10
2	415	5
	240	10
3, 4	240	10
	415	5

### Series E90N - 3kA - AC MCB's



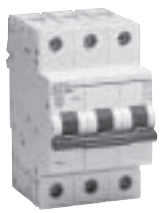
**1P**  
**1 mod.**  
1/2  
  
2/1

Pole width	Rated current [A]	B		C		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
18mm	2	-	-	E91N C02	552466	12
	4	-	-	E91N C04	552468	12
	6	E91N B06	552405	E91N C06	552469	12
	10	E91N B10	552407	E91N C10	552471	12
	16	E91N B16	552409	E91N C16	552473	12
	20	E91N B20	552410	E91N C20	552474	12
	25	E91N B25	552411	E91N C25	552475	12
	40	E91N B40	552413	E91N C40	552477	12



**2P**  
**2 mod.**  
1/2 3/4  
  
2/1 4/3

18mm	2	-	-	E92N C02	552482	6
	4	-	-	E92N C04	552484	6
	6	E92N B06	552421	E92N C06	552485	6
	10	E92N B10	552423	E92N C10	552487	6
	16	E92N B16	552425	E92N C16	552489	6
	20	E92N B20	552426	E92N C20	552490	6
	25	E92N B25	552427	E92N C25	552491	6
	40	E92N B40	552429	E92N C40	552493	6



**3P**  
**3 mod.**  
1/2 3/4 5/6  
  
2/1 4/3 6/5

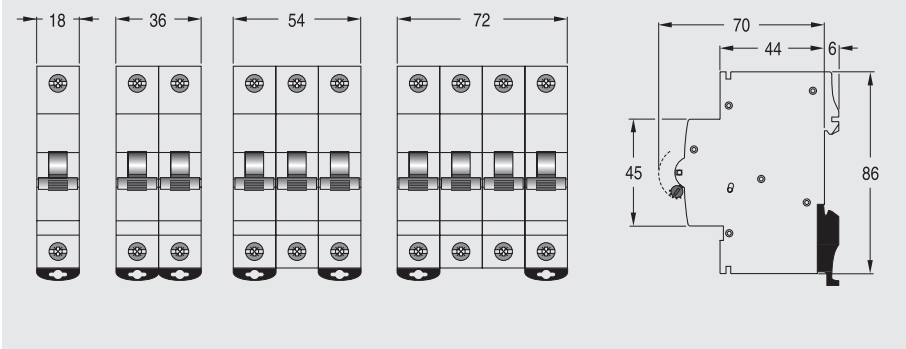
18mm	2	-	-	E93N C02	552498	4
	4	-	-	E93N C04	552500	4
	6	E93N B06	552437	E93N C06	552501	4
	10	E93N B10	552439	E93N C10	552503	4
	16	E93N B16	552441	E93N C16	552505	4
	20	E93N B20	552442	E93N C20	552506	4
	25	E93N B25	552443	E93N C25	552507	4
	40	E93N B40	552445	E93N C40	552509	4



**4P**  
**4 mod.**  
1/2 3/4 5/6 7/8  
  
2/1 4/3 6/5 8/7

18mm	2	-	-	E94N C02	552514	3
	4	-	-	E94N C04	552516	3
	6	E94N B06	552453	E94N C06	552517	3
	10	E94N B10	552455	E94N C10	552519	3
	16	E94N B16	552457	E94N C16	552521	3
	20	E94N B20	552458	E94N C20	552522	3
	25	E94N B25	552459	E94N C25	552523	3
	40	E94N B40	552461	E94N C40	552525	3

### Dimensions - Series E90N, E90E, E90, E90S, E90X



## Miniature circuit breakers

### Series E90E



**DIN VDE 0641**      **4.5kA**  
**EN/IEC 60898**      4500  
3  
**EN/IEC 60947-2**      **6kA**

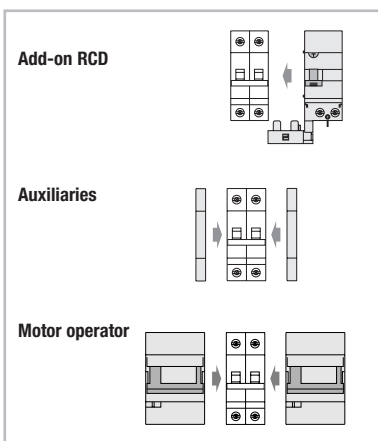
### Applications



### Approval/Marking



### 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

### Performances

<b>Thermal setting I<sub>n</sub></b>	(A)	2-40
<b>Rated voltage AC U<sub>n</sub></b>	(V)	240/415
<b>Minimum operating voltage U<sub>B min</sub></b>	(V)	12
<b>Tripping characteristics</b>		B-C
<b>Selectivity class</b>		3
<b>Mechanical/electrical endurance</b>		20000/10000
<b>Tropicalisation acc.to IEC 60068-2</b>		95%RH at 55°C
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	25-35
<b>Poles</b>		1, 1+N, 2, 3, 3+N, 4
<b>Weight</b>	(g/pole)	120
<b>Thermal operating limit</b>		(1.13 - 1.45) x I <sub>n</sub>
<b>Magnetic operating</b>		B: (3 - 5) x I <sub>n</sub> C: (5 - 10) x I <sub>n</sub>

### Short-circuit capacity

#### AC acc. to EN/IEC 60898

Poles	V	I <sub>cn</sub> /I <sub>cs</sub> (kA)
1-4	230/400	4.5

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

Poles	V	I <sub>cu</sub> (kA)
1	240	6
	127	15
	240	10
2	415	6
	240	10
3, 4	240	10
	415	6



## Series E90E - 4.5kA - AC MCB's



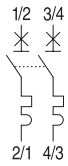
**1P  
1 mod.**



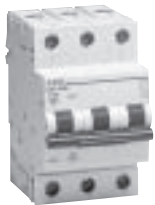
Pole width	Rated current [A]	B		C		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
18mm	2	-	-	E91E C02	552610	12
	4	-	-	E91E C04	552612	12
	6	E91E B06	552533	E91E C06	552613	12
	10	E91E B10	552535	E91E C10	552615	12
	16	E91E B16	552537	E91E C16	552617	12
	20	E91E B20	552538	E91E C20	552618	12
	25	E91E B25	552539	E91E C25	552619	12
	40	E91E B40	552541	E91E C40	552621	12



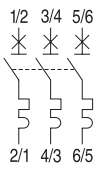
**2P  
2 mod.**



18mm	2	-	-	E92E C02	552626	6
	4	-	-	E92E C04	552628	6
	6	E92E B06	552549	E92E C06	552629	6
	10	E92E B10	552551	E92E C10	552631	6
	16	E92E B16	552553	E92E C16	552633	6
	20	E92E B20	552554	E92E C20	552634	6
	25	E92E B25	552555	E92E C25	552635	6
	40	E92E B40	552557	E92E C40	552637	6



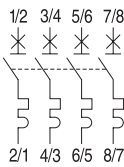
**3P  
3 mod.**



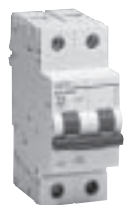
18mm	2	-	-	E93E C02	552642	4
	4	-	-	E93E C04	552644	4
	6	E93E B06	552565	E93E C06	552645	4
	10	E93E B10	552567	E93E C10	552647	4
	16	E93E B16	552569	E93E C16	552649	4
	20	E93E B20	552570	E93E C20	552650	4
	25	E93E B25	552571	E93E C25	552651	4
	40	E93E B40	552573	E93E C40	552653	4



**4P  
4 mod.**



18mm	2	-	-	E94E C02	552658	3
	4	-	-	E94E C04	552660	3
	6	E94E B06	552581	E94E C06	552661	3
	10	E94E B10	552583	E94E C10	552663	3
	16	E94E B16	552585	E94E C16	552665	3
	20	E94E B20	552586	E94E C20	552666	3
	25	E94E B25	552587	E94E C25	552667	3
	40	E94E B40	552589	E94E C40	552669	3



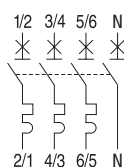
**1P+N  
2 mod.**



18mm	2	-	-	E91E C02 N	552672	6
	4	-	-	E91E C04 N	552673	6
	6	E91E B06 N	552592	E91E C06 N	552674	6
	10	E91E B10 N	552593	E91E C10 N	552675	6
	13	E91E B13 N	552594	E91E C13 N	552676	6
	16	E91E B16 N	552595	E91E C16 N	552677	6
	20	E91E B20 N	552596	E91E C20 N	552678	6
	40	E91E B40 N	552599	E91E C40 N	552681	6



**3P+N  
4 mod.**



18mm	2	-	-	E93E C02 N	552682	3
	4	-	-	E93E C04 N	552683	3
	6	E93E B06 N	552600	E93E C06 N	552684	3
	10	E93E B10 N	552601	E93E C10 N	552685	3
	13	E93E B13 N	552602	E93E C13 N	552686	3
	16	E93E B16 N	552603	E93E C16 N	552687	3
	20	E93E B20 N	552604	E93E C20 N	552688	3
	40	E93E B40 N	552607	E93E C40 N	552691	3

## Miniature circuit breakers

### Series E90



**DIN VDE 0641** **6kA**  
**EN/IEC 60898** 6000

3

**EN/IEC 60947-2** **10kA**

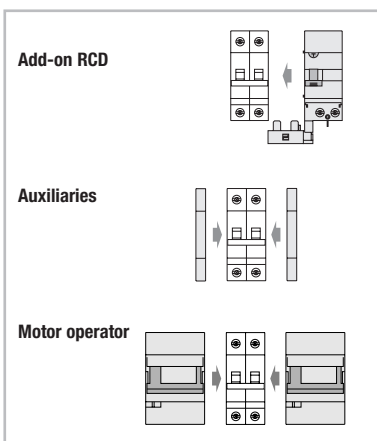
### Applications



### Approval/Marking



### 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

### Performances

<b>Thermal setting <math>I_n</math></b>	(A)	0.5-63
<b>Rated voltage AC <math>U_n</math></b>	(V)	240/415
<b>Minimum operating voltage <math>U_{B\ min}</math></b>	(V)	12
<b>Tripping characteristics</b>		B-C-D
<b>Selectivity class</b>		3
<b>Mechanical/electrical endurance</b>		20000/10000
<b>Tropicalisation acc.to IEC 60068-2</b>		95%RH at 55°C
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	25-35
<b>Poles</b>		1, 1+N, 2, 3, 3+N, 4
<b>Weight</b>	(g/pole)	120
<b>Thermal operating limit</b>		(1.13 - 1.45) x $I_n$
<b>Magnetic operating</b>		B: (3 - 5) x $I_n$ C: (5 - 10) x $I_n$ D: (10 - 20) x $I_n$

### Short-circuit capacity

#### AC acc. to EN/IEC 60898

Poles	V	$I_{cn}/I_{cs}$ (kA)
1-4	230/400	6

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

Poles	V	$I_{cu}$ (kA) <sup>(1)</sup>
1	240	10
1+N.2	127	30
	240	20
2	415	10
3, 4	240	20
	415	10

#### DC acc. to EN/IEC 60947-2<sup>(2)</sup>

Poles	V	$I_{cu}/I_{cs}$ (kA)
1	60	20
2	125	25

(1)  $I_{cs} = 75\% I_{cu}$

(2) Nominal and maximum VDC in page A.26-A.29

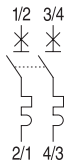
## Series E90 - 6kA - AC MCB's



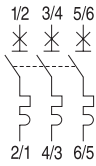
**1P  
1 mod.**



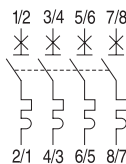
**2P  
2 mod.**



**3P  
3 mod.**



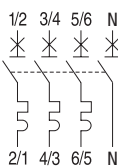
**4P  
4 mod.**



**1P+N  
2 mod.**



**3P+N  
4 mod.**



Pole width	Rated current [A]	B		C		D		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
18mm	0.5	-	-	E91 C0.5	552784	E91 D0.5	552876	12
	1	-	-	E91 C01	552785	E91 D01	552877	12
	2	-	-	E91 C02	552786	E91 D02	552878	12
	3	-	-	E91 C03	552787	E91 D03	552879	12
	4	-	-	E91 C04	552788	E91 D04	552880	12
	6	E91 B06	552697	E91 C06	552789	E91 D06	552881	12
	10	E91 B10	552699	E91 C10	552791	E91 D10	552883	12
	13	E91 B13	552700	E91 C13	552792	E91 D13	552884	12
	16	E91 B16	552701	E91 C16	552793	E91 D16	552885	12
	20	E91 B20	552702	E91 C20	552794	E91 D20	552886	12
	25	E91 B25	552703	E91 C25	552795	E91 D25	552887	12
	32	E91 B32	552704	E91 C32	552796	E91 D32	552888	12
	40	E91 B40	552705	E91 C40	552797	E91 D40	552889	12
	50	E91 B50	552706	E91 C50	552798	E91 D50	552890	12
63	E91 B63	552707	E91 C63	552799	E91 D63	552891	12	
18mm	0.5	-	-	E92 C0.5	552819	E92 D0.5	552911	6
	1	-	-	E92 C01	552820	E92 D01	552912	6
	2	-	-	E92 C02	552821	E92 D02	552913	6
	3	-	-	E92 C03	552822	E92 D03	552914	6
	4	-	-	E92 C04	552823	E92 D04	552915	6
	6	E92 B06	552732	E92 C06	552824	E92 D06	552916	6
	10	E92 B10	552734	E92 C10	552826	E92 D10	552918	6
	13	E92 B13	552735	E92 C13	552827	E92 D13	552919	6
	16	E92 B16	552736	E92 C16	552828	E92 D16	552920	6
	20	E92 B20	552737	E92 C20	552829	E92 D20	552921	6
	25	E92 B25	552738	E92 C25	552830	E92 D25	552922	6
	32	E92 B32	552739	E92 C32	552831	E92 D32	552923	6
	40	E92 B40	552740	E92 C40	552832	E92 D40	552924	6
	50	E92 B50	552741	E92 C50	552833	E92 D50	552925	6
63	E92 B63	552742	E92 C63	552834	E92 D63	552926	6	
18mm	0.5	-	-	E93 C0.5	552838	E93 D0.5	552930	4
	1	-	-	E93 C01	552839	E93 D01	552931	4
	2	-	-	E93 C02	552840	E93 D02	552932	4
	3	-	-	E93 C03	552841	E93 D03	552933	4
	4	-	-	E93 C04	552842	E93 D04	552934	4
	6	E93 B06	552751	E93 C06	552843	E93 D06	552935	4
	10	E93 B10	552753	E93 C10	552845	E93 D10	552937	4
	13	E93 B13	552754	E93 C13	552846	E93 D13	552938	4
	16	E93 B16	552755	E93 C16	552847	E93 D16	552939	4
	20	E93 B20	552756	E93 C20	552848	E93 D20	552940	4
	25	E93 B25	552757	E93 C25	552849	E93 D25	552941	4
	32	E93 B32	552758	E93 C32	552850	E93 D32	552942	4
	40	E93 B40	552759	E93 C40	552851	E93 D40	552943	4
	50	E93 B50	552760	E93 C50	552852	E93 D50	552944	4
63	E93 B63	552761	E93 C63	552853	E93 D63	552945	4	
18mm	0.5	-	-	E94 C0.5	552857	E94 D0.5	552949	3
	1	-	-	E94 C01	552858	E94 D01	552950	3
	2	-	-	E94 C02	552859	E94 D02	552951	3
	3	-	-	E94 C03	552860	E94 D03	552952	3
	4	-	-	E94 C04	552861	E94 D04	552953	3
	6	E94 B06	552770	E94 C06	552862	E94 D06	552954	3
	10	E94 B10	552772	E94 C10	552864	E94 D10	552956	3
	13	E94 B13	552773	E94 C13	552865	E94 D13	552957	3
	16	E94 B16	552774	E94 C16	552866	E94 D16	552958	3
	20	E94 B20	552775	E94 C20	552867	E94 D20	552959	3
	25	E94 B25	552776	E94 C25	552868	E94 D25	552960	3
	32	E94 B32	552777	E94 C32	552869	E94 D32	552961	3
	40	E94 B40	552778	E94 C40	552870	E94 D40	552962	3
	50	E94 B50	552779	E94 C50	552871	E94 D50	552963	3
63	E94 B63	552780	E94 C63	552872	E94 D63	552964	3	
18mm	0.5	-	-	E91 C0.5 N	552803	E91 D0.5 N	552895	6
	1	-	-	E91 C01 N	552804	E91 D01 N	552896	6
	2	-	-	E91 C02 N	552805	E91 D02 N	552897	6
	3	-	-	E91 C03 N	552806	E91 D03 N	552898	6
	4	-	-	E91 C04 N	552807	E91 D04 N	552899	6
	6	E91 B06 N	552716	E91 C06 N	552808	E91 D06 N	552900	6
	10	E91 B10 N	552718	E91 C10 N	552810	E91 D10 N	552902	6
	13	E91 B13 N	552719	E91 C13 N	552811	E91 D13 N	552903	6
	16	E91 B16 N	552720	E91 C16 N	552812	E91 D16 N	552904	6
	20	E91 B20 N	552721	E91 C20 N	552813	E91 D20 N	552905	6
	25	E91 B25 N	552722	E91 C25 N	552814	E91 D25 N	552906	6
	32	E91 B32 N	552723	E91 C32 N	552815	E91 D32 N	552907	6
	40	E91 B40 N	552724	E91 C40 N	552816	E91 D40 N	552908	6
	50	E91 B50 N	552725	E91 C50 N	552817	E91 D50 N	552909	6
63	E91 B63 N	552726	E91 C63 N	552818	E91 D63 N	552910	6	
18mm	0.5	-	-	E93 C0.5 N	681192	E93 D0.5 N	681208	3
	1	-	-	E93 C01 N	681193	E93 D01 N	681209	3
	2	-	-	E93 C02 N	681194	E93 D02 N	681210	3
	3	-	-	E93 C03 N	681195	E93 D03 N	681211	3
	4	-	-	E93 C04 N	681196	E93 D04 N	681212	3
	6	E93 B06 N	681181	E93 C06 N	681197	E93 D06 N	681213	3
	10	E93 B10 N	681183	E93 C10 N	681199	E93 D10 N	681215	3
	13	E93 B13 N	681184	E93 C13 N	681200	E93 D13 N	681216	3
	16	E93 B16 N	681185	E93 C16 N	681201	E93 D16 N	681217	3
	20	E93 B20 N	681186	E93 C20 N	681202	E93 D20 N	681218	3
	25	E93 B25 N	681187	E93 C25 N	681203	E93 D25 N	681219	3
	32	E93 B32 N	681188	E93 C32 N	681204	E93 D32 N	681220	3
	40	E93 B40 N	681189	E93 C40 N	681205	E93 D40 N	681221	3
	50	E93 B50 N	681190	E93 C50 N	681206	E93 D50 N	681222	3
63	E93 B63 N	681191	E93 C63 N	681207	E93 D63 N	681223	3	

## Miniature circuit breakers

### Series E90S



**DIN VDE 0641**      **10kA**  
**EN/IEC 60898**      10000

3

**EN/IEC 60947-2**      **15kA**

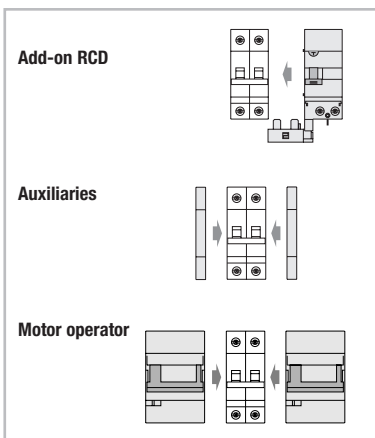
### Applications



### Approval/Marking



### 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

### Performances

<b>Thermal setting I<sub>n</sub></b>	(A)	0.5-63
<b>Rated voltage AC U<sub>n</sub></b>	(V)	240/415
<b>Minimum operating voltage U<sub>B min</sub></b>	(V)	12
<b>Tripping characteristics</b>		B-C-D
<b>Selectivity class</b>		3
<b>Mechanical/electrical endurance</b>		20000/10000
<b>Tropicalisation acc.to IEC 60068-2</b>		95%RH at 55°C
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	25-35
<b>Poles</b>		1, 1+N, 2, 3, 3+N, 4
<b>Weight</b>	(g/pole)	120
<b>Thermal operating limit</b>		(1.13 - 1.45) x I <sub>n</sub>
<b>Magnetic operating</b>		B: (3 - 5) x I <sub>n</sub> C: (5 - 10) x I <sub>n</sub> D: (10 - 20) x I <sub>n</sub>

### Short-circuit capacity

#### AC acc. to EN/IEC 60898

Poles	V	I <sub>cn</sub> (kA) <sup>(1)</sup>
1-4	230/400	10

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

Poles	V	I <sub>cu</sub> (kA) <sup>(1)</sup>
1	240	15
1+N.2	127	40
	240	30
2	415	15
3, 4	240	30
	415	15

<sup>(1)</sup> I<sub>cs</sub> = 50% I<sub>cu</sub>




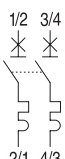
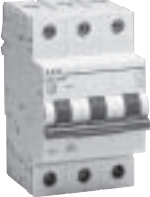
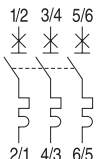

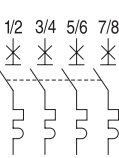



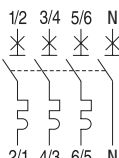
#### DC acc. to EN/IEC 60947-2<sup>(2)</sup>

Poles	V	I <sub>cu</sub> /I <sub>cs</sub> (kA)
1	60	25
2	125	30

<sup>(1)</sup> I<sub>cs</sub> = 75% I<sub>cn</sub>

<sup>(2)</sup> Nominal and maximum VDC in page A.26-A.29

## Series E90S - 10kA - AC MCB's

	Pole width	Rated current [A]	B		C		D		Pack.
			Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
 <p><b>1P</b> 1 mod.</p> <p>1/2</p>  <p>2/1</p>	18mm	0.5	-	-	E91S C0.5	553044	E91S D0.5	553120	12
		1	-	-	E91S C01	553045	E91S D01	553121	12
		2	-	-	E91S C02	553046	E91S D02	553122	12
		3	-	-	E91S C03	553047	E91S D03	553123	12
		4	-	-	E91S C04	553048	E91S D04	553124	12
		6	E91S B06	552973	E91S C06	553049	E91S D06	553125	12
		10	E91S B10	552975	E91S C10	553051	E91S D10	553127	12
		13	E91S B13	552976	E91S C13	553052	E91S D13	553128	12
		16	E91S B16	552977	E91S C16	553053	E91S D16	553129	12
		20	E91S B20	552978	E91S C20	553054	E91S D20	553130	12
		25	E91S B25	552979	E91S C25	553055	E91S D25	553131	12
		32	E91S B32	552980	E91S C32	553056	E91S D32	553132	12
		40	E91S B40	552981	E91S C40	553057	E91S D40	553132	12
		50	E91S B50	552982	E91S C50	553058	E91S D50	553134	12
63	E91S B63	552983	E91S C63	553059	E91S D63	553135	12		
 <p><b>2P</b> 2 mod.</p> <p>1/2 3/4</p>  <p>2/1 4/3</p>	18mm	0.5	-	-	E92S C0.5	553063	E92S D0.5	553139	6
		1	-	-	E92S C01	553064	E92S D01	553140	6
		2	-	-	E92S C02	553065	E92S D02	553141	6
		3	-	-	E92S C03	553066	E92S D03	553142	6
		4	-	-	E92S C04	553067	E92S D04	553143	6
		6	E92S B06	552992	E92S C06	553068	E92S D06	553144	6
		10	E92S B10	552994	E92S C10	553070	E92S D10	553146	6
		13	E92S B13	552995	E92S C13	553071	E92S D13	553147	6
		16	E92S B16	552996	E92S C16	553072	E92S D16	553148	6
		20	E92S B20	552997	E92S C20	553073	E92S D20	553149	6
		25	E92S B25	552998	E92S C25	553074	E92S D25	553150	6
		32	E92S B32	552999	E92S C32	553075	E92S D32	553151	6
		40	E92S B40	553000	E92S C40	553076	E92S D40	553152	6
		50	E92S B50	553001	E92S C50	553077	E92S D50	553153	6
63	E92S B63	553002	E92S C63	553078	E92S D63	553154	6		
 <p><b>3P</b> 3 mod.</p> <p>1/2 3/4 5/6</p>  <p>2/1 4/3 6/5</p>	18mm	0.5	-	-	E93S C0.5	553082	E93S D0.5	553158	4
		1	-	-	E93S C01	553083	E93S D01	553159	4
		2	-	-	E93S C02	553084	E93S D02	553160	4
		3	-	-	E93S C03	553085	E93S D03	553161	4
		4	-	-	E93S C04	553086	E93S D04	553162	4
		6	E93S B06	553011	E93S C06	553087	E93S D06	553163	4
		10	E93S B10	553013	E93S C10	553089	E93S D10	553165	4
		13	E93S B13	553014	E93S C13	553090	E93S D13	553166	4
		16	E93S B16	553015	E93S C16	553091	E93S D16	553167	4
		20	E93S B20	553016	E93S C20	553092	E93S D20	553168	4
		25	E93S B25	553017	E93S C25	553093	E93S D25	553169	4
		32	E93S B32	553018	E93S C32	553094	E93S D32	553170	4
		40	E93S B40	553019	E93S C40	553095	E93S D40	553171	4
		50	E93S B50	553020	E93S C50	553096	E93S D50	553172	4
63	E93S B63	553021	E93S C63	553097	E93S D63	553173	4		
 <p><b>4P</b> 4 mod.</p> <p>1/2 3/4 5/6 7/8</p>  <p>2/1 4/3 6/5 8/7</p>	18mm	0.5	-	-	E94S C0.5	553101	-	-	3
		1	-	-	E94S C01	553102	E94S D01	553178	3
		2	-	-	E94S C02	553103	E94S D02	553179	3
		3	-	-	E94S C03	553104	E94S D03	553180	3
		4	-	-	E94S C04	553105	E94S D04	553181	3
		6	E94S B06	553030	E94S C06	553106	E94S D06	553182	3
		10	E94S B10	553032	E94S C10	553108	E94S D10	553184	3
		13	E94S B13	553033	E94S C13	553109	E94S D13	553185	3
		16	E94S B16	553034	E94S C16	553110	E94S D16	553186	3
		20	E94S B20	553035	E94S C20	553111	E94S D20	553187	3
		25	E94S B25	553036	E94S C25	553112	E94S D25	553188	3
		32	E94S B32	553037	E94S C32	553113	E94S D32	553189	3
		40	E94S B40	553038	E94S C40	553114	E94S D40	553190	3
		50	E94S B50	553039	E94S C50	553115	E94S D50	553191	3
63	E94S B63	553040	E94S C63	553116	E94S D63	553192	3		
 <p><b>1P+N</b> 2 mod.</p> <p>1/2 N</p>  <p>2/1 N</p>	18mm	0.5	-	-	E91S C0.5 N	681064	E91S D0.5 N	681080	6
		1	-	-	E91S C01 N	681065	E91S D01 N	681081	6
		2	-	-	E91S C02 N	681066	E91S D02 N	681082	6
		3	-	-	E91S C03 N	681067	E91S D03 N	681083	6
		4	-	-	E91S C04 N	681068	E91S D04 N	681084	6
		6	E91S B06 N	681053	E91S C06 N	681069	E91S D06 N	681085	6
		10	E91S B10 N	681055	E91S C10 N	681071	E91S D10 N	681087	6
		13	E91S B13 N	681056	E91S C13 N	681072	E91S D13 N	681088	6
		16	E91S B16 N	681057	E91S C16 N	681073	E91S D16 N	681089	6
		20	E91S B20 N	681058	E91S C20 N	681074	E91S D20 N	681090	6
		25	E91S B25 N	681059	E91S C25 N	681075	E91S D25 N	681091	6
		32	E91S B32 N	681060	E91S C32 N	681076	E91S D32 N	681092	6
		40	E91S B40 N	681061	E91S C40 N	681077	E91S D40 N	681093	6
		50	E91S B50 N	681062	E91S C50 N	681078	E91S D50 N	681094	6
63	E91S B63 N	681063	E91S C63 N	681079	E91S D63 N	681095	6		
 <p><b>3P+N</b> 4 mod.</p> <p>1/2 3/4 5/6 N</p>  <p>2/1 4/3 6/5 N</p>	18mm	0.5	-	-	E93S C0.5 N	681144	E93S D0.5 N	681160	3
		1	-	-	E93S C01 N	681145	E93S D01 N	681161	3
		2	-	-	E93S C02 N	681146	E93S D02 N	681162	3
		3	-	-	E93S C03 N	681147	E93S D03 N	681163	3
		4	-	-	E93S C04 N	681148	E93S D04 N	681164	3
		6	E93S B06 N	681133	E93S C06 N	681149	E93S D06 N	681165	3
		10	E93S B10 N	681135	E93S C10 N	681151	E93S D10 N	681167	3
		13	E93S B13 N	681136	E93S C13 N	681152	E93S D13 N	681168	3
		16	E93S B16 N	681137	E93S C16 N	681153	E93S D16 N	681169	3
		20	E93S B20 N	681138	E93S C20 N	681154	E93S D20 N	681170	3
		25	E93S B25 N	681139	E93S C25 N	681155	E93S D25 N	681171	3
		32	E93S B32 N	681140	E93S C32 N	681156	E93S D32 N	681172	3
		40	E93S B40 N	681141	E93S C40 N	681157	E93S D40 N	681173	3
		50	E93S B50 N	681142	E93S C50 N	681158	E93S D50 N	681174	3
63	E93S B63 N	681143	E93S C63 N	681159	E93S D63 N	681175	3		

## Miniature circuit breakers

### Series E90X

**EN/IEC 60947-2**    **100kA**  
**25kA**  
**20kA**  
**15kA**



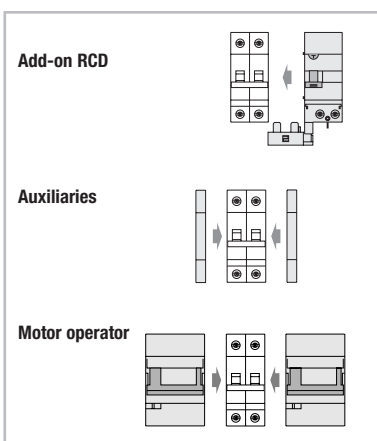
### Applications



### Marking



### 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

### Performances

<b>Thermal setting In</b>	(A)	0.5-63
<b>Rated voltage AC Un</b>	(V)	240/415
<b>Minimum operating voltage U<sub>B min</sub></b>	(V)	12
<b>Tripping characteristics</b>		(3 - 5) In (B) (5 - 10) In (C) (10 - 20) In (D)
<b>Selectivity class</b>		3
<b>Mechanical/electrical endurance</b>		20000/10000
<b>Tropicalisation acc.to IEC 60068-2</b>		95%RH at 55°C
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	25-35
<b>Poles</b>		1, 2, 3, 4
<b>Weight</b>	(g/pole)	120
<b>Thermal operating limit</b>		(1.05 - 1.30) x In
<b>Magnetic operating</b>		(3 - 5) In (B) (5 - 10) In (C) (10 - 20) In (D)

### Short-circuit capacity

#### Acc. to EN/IEC 60947-2

In(A)	Poles	V	Icu (kA) <sup>(1)</sup>
0.5-4	1	240	100
	2-4	415	100
6-25	1	240	25
		415	25
	2-4	240	50
		415	25
32-40	1	240	20
		415	20
	2-4	240	40
		415	20
50-63	1	240	15
		415	15
	2-4	240	30
		415	15

#### DC acc. to EN/IEC 60947-2<sup>(2)</sup>

Poles	V	Icu/Ics (kA)
1	60	20
2	125	25

(1) Ics = 50% Icu

(2) Nominal and maximum VDC in page A.26-A.29

## Series E90X - 25kA - AC MCB's<sup>(1)</sup>



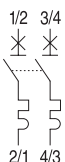
**1P**  
**1 mod.**



Pole width	Rated current [A]	B		C		D		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
18mm	0.5	-	-	E91X C0.5	553400	E91X D0.5	553464	12
	1	-	-	E91X C01	553401	E91X D01	553465	12
	2	-	-	E91X C02	553402	E91X D02	553466	12
	3	-	-	E91X C03	553403	E91X D03	553467	12
	4	-	-	E91X C04	553404	E91X D04	553468	12
	6	E91X B06	553341	E91X C06	553405	E91X D06	553469	12
	10	E91X B10	553343	E91X C10	553407	E91X D10	553471	12
	13	E91X B13	553344	E91X C13	553408	E91X D13	553472	12
	16	E91X B16	553345	E91X C16	553409	E91X D16	553473	12
	20	E91X B20	553346	E91X C20	553410	E91X D20	553474	12
	25	E91X B25	553347	E91X C25	553411	E91X D25	553475	12
	32	E91X B32	553348	E91X C32	553412	E91X D32	553476	12
	40	E91X B40	553349	E91X C40	553413	E91X D40	553477	12
	50	E91X B50	553350	E91X C50	553414	E91X D50	553478	12
	63	E91X B63	553351	E91X C63	553415	E91X D63	553479	12



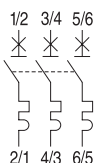
**2P**  
**2 mod.**



18mm	0.5	-	-	E92X C0.5	553416	E92X D0.5	553480	6
	1	-	-	E92X C01	553417	E92X D01	553481	6
	2	-	-	E92X C02	553418	E92X D02	553482	6
	3	-	-	E92X C03	553419	E92X D03	553483	6
	4	-	-	E92X C04	553420	E92X D04	553484	6
	6	E92X B06	553357	E92X C06	553421	E92X D06	553485	6
	10	E92X B10	553359	E92X C10	553423	E92X D10	553487	6
	13	E92X B13	553360	E92X C13	553424	E92X D13	553488	6
	16	E92X B16	553361	E92X C16	553425	E92X D16	553489	6
	20	E92X B20	553362	E92X C20	553426	E92X D20	553490	6
	25	E92X B25	553363	E92X C25	553427	E92X D25	553491	6
	32	E92X B32	553364	E92X C32	553428	E92X D32	553492	6
	40	E92X B40	553365	E92X C40	553429	E92X D40	553493	6
	50	E92X B50	553366	E92X C50	553430	E92X D50	553494	6
	63	E92X B63	553367	E92X C63	553431	E92X D63	553495	6



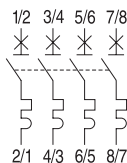
**3P**  
**3 mod.**



18mm	0.5	-	-	E93X C0.5	553432	E93X D0.5	553496	4
	1	-	-	E93X C01	553433	E93X D01	553497	4
	2	-	-	E93X C02	553434	E93X D02	553498	4
	3	-	-	E93X C03	553435	E93X D03	553499	4
	4	-	-	E93X C04	553436	E93X D04	553500	4
	6	E93X B06	553373	E93X C06	553437	E93X D06	553501	4
	10	E93X B10	553375	E93X C10	553439	E93X D10	553503	4
	13	E93X B13	553376	E93X C13	553440	E93X D13	553504	4
	16	E93X B16	553377	E93X C16	553441	E93X D16	553505	4
	20	E93X B20	553378	E93X C20	553442	E93X D20	553506	4
	25	E93X B25	553379	E93X C25	553443	E93X D25	553507	4
	32	E93X B32	553380	E93X C32	553444	E93X D32	553508	4
	40	E93X B40	553381	E93X C40	553445	E93X D40	553509	4
	50	E93X B50	553382	E93X C50	553446	E93X D50	553510	4
	63	E93X B63	553383	E93X C63	553447	E93X D63	553511	4



**4P**  
**4 mod.**



18mm	0.5	-	-	E94X C0.5	553448	E94X D0.5	553512	3
	1	-	-	E94X C01	553449	E94X D01	553513	3
	2	-	-	E94X C02	553450	E94X D02	553514	3
	3	-	-	E94X C03	553451	E94X D03	553515	3
	4	-	-	E94X C04	553452	E94X D04	553516	3
	6	E94X B06	553389	E94X C06	553453	E94X D06	553517	3
	10	E94X B10	553391	E94X C10	553455	E94X D10	553519	3
	13	E94X B13	553392	E94X C13	553456	E94X D13	553520	3
	16	E94X B16	553393	E94X C16	553457	E94X D16	553521	3
	20	E94X B20	553394	E94X C20	553458	E94X D20	553522	3
	25	E94X B25	553395	E94X C25	553459	E94X D25	553523	3
	32	E94X B32	553396	E94X C32	553460	E94X D32	553524	3
	40	E94X B40	553397	E94X C40	553461	E94X D40	553525	3
	50	E94X B50	553398	E94X C50	553462	E94X D50	553526	3
	63	E94X B63	553399	E94X C63	553463	E94X D63	553527	3

(1) 1P, 240V:  
 0.5 ≤ In ≤ 4A      Icu = 100kA  
 4A < In ≤ 25A      Icu = 25kA  
 25A < In ≤ 40A      Icu = 20kA  
 40A < In ≤ 63A      Icu = 15kA



## Miniature circuit breakers

### Series E90S UC

**EN/IEC 60898** 6000 T15  
**DIN VDE 0641**

**EN/IEC 60947-2** 10kA

### Applications

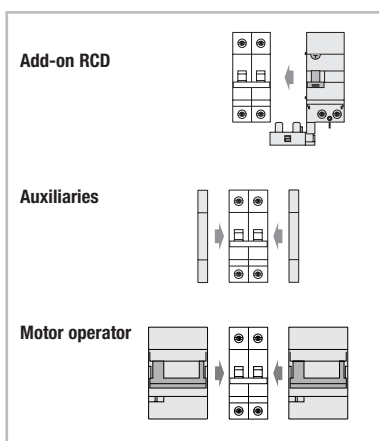


### Standard/Marking

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.17

### Performances

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

### Short-circuit capacity

#### AC/DC acc. to IEC 60898-2<sup>(1)</sup>

Poles	V	Icn=Ics (kA) <sup>(2)</sup>
1	125 DC	10
	220 DC	6
	230/400 AC	6
2	250 DC	10
	440 DC	6
	400 AC	6

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

Poles	V	Icu (kA)
1	220 DC	10 <sup>(3)</sup>
2	440 DC	10 <sup>(3)</sup>
1	230 AC	6 <sup>(4)</sup>
1	440 AC	6 <sup>(4)</sup>

(1) After a switching of the net with more than 6kA in AC, is use in DC impossible

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

(3) T = 4ms

(4) 4.5kA for 50A & 63A



## Series E90S UC - 6kA - AC/DC MCB's



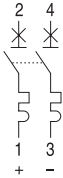
1P  
1 mod.



Pole width	Rated current [A]	B		C		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
	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

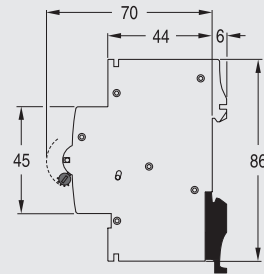
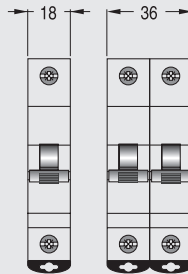


2P  
2 mod.



	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

## Dimensions - Series E90S UC





## Miniature circuit breakers

### Series E880 (80, 100, 125A)

**EN/IEC 60947-2      6kA**

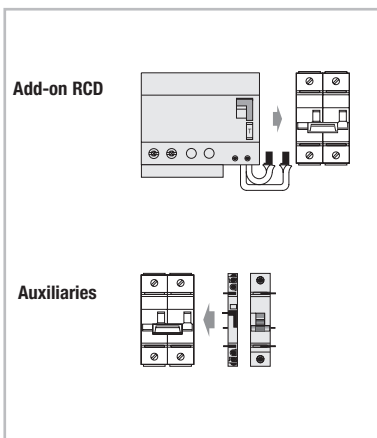
### Applications



### Standard/Marking

EN/IEC 60947-2

### Add-on devices



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

Dimensions ● pg A.19

### Performances

<b>Thermal setting In</b>	(A)	80-100-125
<b>Rated voltage AC Un</b>	(V)	240/415
<b>Tripping characteristics</b>		B-C-D
<b>Mechanical/electrical endurance</b>		10000/4000
<b>Operating temperature</b>	(°C)	-25 up to 55
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	70
<b>Poles</b>		1, 2, 3, 4
<b>Weight</b>	(g/pole)	210
<b>Thermal operating limit</b>		(1.13 - 1.45) x In
<b>Magnetic operating</b>		B: (3 - 5) x In C: (5 - 10) x In D: (10 - 20) x In

### Short-circuit capacity

Acc. to EN/IEC 60947-2

Poles	V	Icu (kA)
1	230/400	6
2	230	10
3, 4	230	10
	400	6

## Series E880 - 6kA - AC MCB's



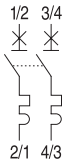
**1P**  
**1.5 mod.**



Pole width	Rated current [A]	B		C		D		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
27mm	80	E881 B080	<b>676600</b>	E881 C080	<b>676612</b>	E881 D080	<b>676624</b>	8
	100	E881 B100	<b>676601</b>	E881 C100	<b>676613</b>	E881 D100	<b>676625</b>	1
	125	E881 B125	<b>676602</b>	E881 C125	<b>676614</b>	E881 D125	<b>676626</b>	1



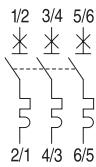
**2P**  
**3 mod.**



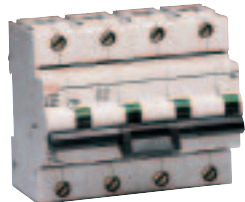
27mm	80	E882 B080	<b>676603</b>	E882 C080	<b>676615</b>	E882 D080	<b>676627</b>	4
	100	E882 B100	<b>676604</b>	E882 C100	<b>676616</b>	E882 D100	<b>676628</b>	1
	125	E882 B125	<b>676605</b>	E882 C125	<b>676617</b>	E882 D125	<b>676629</b>	1



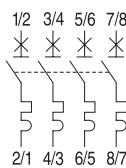
**3P**  
**4.5 mod.**



27mm	80	E883 B080	<b>676606</b>	E883 C080	<b>676618</b>	E883 D080	<b>676630</b>	1
	100	E883 B100	<b>676607</b>	E883 C100	<b>676619</b>	E883 D100	<b>676631</b>	1
	125	E883 B125	<b>676608</b>	E883 C125	<b>676620</b>	E883 D125	<b>676632</b>	1

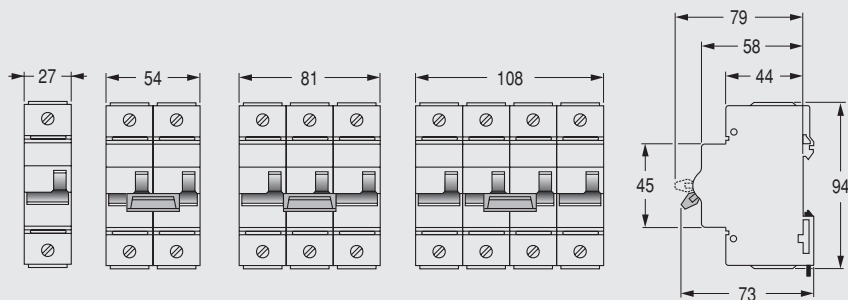


**4P**  
**6 mod.**



27mm	80	E884 B080	<b>676609</b>	E884 C080	<b>676621</b>	E884 D080	<b>676633</b>	1
	100	E884 B100	<b>676610</b>	E884 C100	<b>676622</b>	E884 D100	<b>676634</b>	1
	125	E884 B125	<b>676611</b>	E884 C125	<b>676623</b>	E884 D125	<b>676635</b>	1

## Dimensions - Series E880, E880S





## Miniature circuit breakers

### Series E880S (80, 100, 125A)

**EN/IEC 60947-2 10kA**

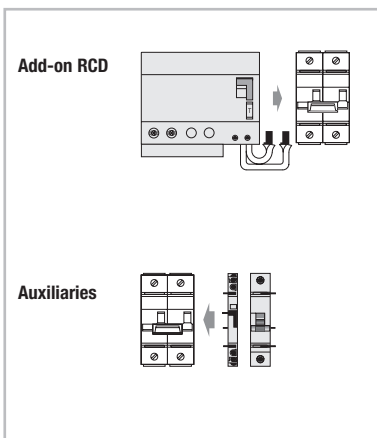
#### Applications



#### Standard/Marking

EN/IEC 609047-2 **CE**

#### Add-on devices



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

Dimensions ● pg A.19

#### Performances

<b>Thermal setting In</b>	(A)	80-100-125
<b>Rated voltage AC Un</b>	(V)	240/415
<b>Tripping characteristics</b>		B-C-D
<b>Mechanical/electrical endurance</b>		10000/4000
<b>Operating temperature</b>	(°C)	-25 up to 55
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	70
<b>Poles</b>		1, 2, 3, 4
<b>Weight</b>	(g/pole)	210
<b>Thermal operating limit</b>		(1.13 - 1.45) x In
<b>Magnetic operating</b>		B: (3 - 5) x In C: (5 - 10) x In D: (10 - 20) x In

#### Short-circuit capacity

##### Acc. to EN/IEC 60947-2 (B-C)

Poles	V	I <sub>cu</sub> (kA) <sup>(1)</sup>
1	230	10 <sup>(2)</sup>
2	230	15 <sup>(3)</sup>
3, 4	230	15 <sup>(3)</sup>
	400	10 <sup>(2)</sup>

- (1) Only for B and C
- (2) 7.5kA for D
- (3) 10kA for D

## Series E880S - 10kA - AC MCB's



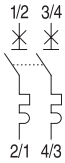
**1P**  
**1.5 mod.**



Pole width	Rated current [A]	B		C		D <sup>(1)</sup>		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
27mm	80	E881S B080	<b>676636</b>	E881S C080	<b>676648</b>	E881S D080	<b>676660</b>	8
	100	E881S B100	<b>676637</b>	E881S C100	<b>676649</b>	E881S D100	<b>676661</b>	8
	125	E881S B125	<b>676638</b>	E881S C125	<b>676650</b>	E881S D125	<b>676662</b>	8



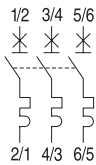
**3P**  
**3 mod.**



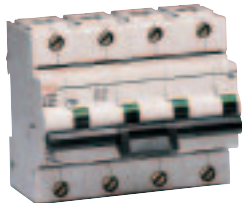
27mm	80	E882S B080	<b>676639</b>	E882S C080	<b>676651</b>	E882S D080	<b>676663</b>	4
	100	E882S B100	<b>676640</b>	E882S C100	<b>676652</b>	E882S D100	<b>676664</b>	4
	125	E882S B125	<b>676641</b>	E882S C125	<b>676653</b>	E882S D125	<b>676665</b>	4



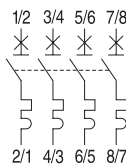
**3P**  
**4.5 mod.**



27mm	80	E883S B080	<b>676642</b>	E883S C080	<b>676654</b>	E883S D080	<b>676666</b>	2
	100	E883S B100	<b>676643</b>	E883S C100	<b>676655</b>	E883S D100	<b>676667</b>	2
	125	E883S B125	<b>676644</b>	E883S C125	<b>676656</b>	E883S D125	<b>676668</b>	2



**4P**  
**6 mod.**



27mm	80	E884S B080	<b>676645</b>	E884S C080	<b>676657</b>	E884S D080	<b>676669</b>	2
	100	E884S B100	<b>676646</b>	E884S C100	<b>676658</b>	E884S D100	<b>676670</b>	2
	125	E884S B125	<b>676647</b>	E884S C125	<b>676659</b>	E884S D125	<b>676671</b>	2

(1) Rated breaking capacity see footnotes (2) and (3) on page A.20



## Miniature circuit breakers

### Series S90

**EN 60898** 25000

**EN 60947-2** **25kA**

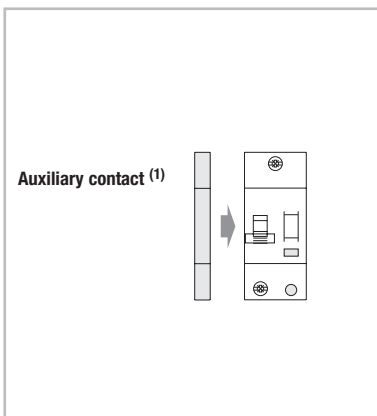
### Applications



### Marking



### Add-on devices



(1) Only for single pole units

Auxiliary contacts ● pg A.25

- Accessories ● pg A.25
- Busbars ● chapter C
- Dimensions ● pg A.23

### Performances

<b>Thermal setting <math>I_n</math></b>	(A)	10-100
<b>Rated voltage AC <math>U_n</math></b>	(V)	230/400
<b>Minimum operating voltage AC <math>U_{B\ min}</math></b>	(V)	207
<b>Tripping characteristics</b>		E, F, Cs
<b>Selectivity class</b>		3
<b>Electrical endurance</b>		4000
<b>Tropicalisation acc.to IEC 60068-2</b>		95%RH at 55°C
<b>Terminal capacity</b>	(mm <sup>2</sup> )	2.5-50 (1.5-35)
<b>Poles</b>		1, 1+N, 3, 3+N, 3x1
<b>Weight</b>	(g/pole)	350
<b>Thermal operating limit</b>		Cs: (1.13 - 1.45) x $I_n$ E: (1.05 - 1.2) x $I_n$ F: (1.05 - 1.3) x $I_n$
<b>Magnetic operating</b>		Cs: (6.5 - 10) x $I_n$ E: (5 - 6.5) x $I_n$ F: (6.5 - 10) x $I_n$

### Short-circuit capacity

#### AC/DC acc. to EN/IEC 60898

Poles	V	$I_{cn}$ (kA)
1, 3, 3+N	230/400	25

## Series S90 - 25kA - AC MCB's



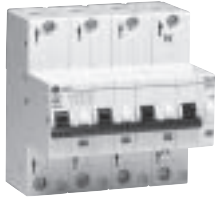
**1P+N  
3 mod.**

Pole width	Rated current [A]	C		E		F		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
27mm	20	S91+N CS020	672540					2
	25	S91+N CS025	672541					2
	32	S91+N CS032	672542					2
	35	S91+N CS035	672543					2
	40	S91+N CS040	672544					2
	50	S91+N CS050	672545					2
	63	S91+N CS063	672546					2
	80	S91+N CS080	672547					2
	100	S91+N CS100	672548					2



**3P  
4.5 mod.**

27mm	20	S93 CS020	672549					1
	25	S93 CS025	672550					1
	32	S93 CS032	672551					1
	35	S93 CS035	672552					1
	40	S93 CS040	672553					1
	50	S93 CS050	672554					1
	63	S93 CS063	672555					1
	80	S93 CS080	672556					1
	100	S93 CS100	672557					1



**3P+N  
6 mod.**

27mm	20	S93+N CS020	672558					1
	25	S93+N CS025	672559					1
	32	S93+N CS032	672560					1
	35	S93+N CS035	672561					1
	40	S93+N CS040	672562					1
	50	S93+N CS050	672563					1
	63	S93+N CS063	672564					1
	80	S93+N CS080	672565					1
	100	S93+N CS100	672566					1



**1P  
1.5 mod.**

27mm	10	-	-	S91 E010	672500	S91 F010	672520	3
	16	-	-	S91 E016	672501	S91 F016	672521	3
	20	S91 CS020	672482	S91 E020	672502	S91 F020	672522	3
	25	S91 CS025	672483	S91 E025	672503	S91 F025	672523	3
	32	S91 CS032	672484	S91 E032	672504	S91 F032	672524	3
	35	S91 CS035	672485	S91 E035	672505	S91 F035	672525	3
	40	S91 CS040	672486	S91 E040	672506	S91 F040	672526	3
	50	S91 CS050	672487	S91 E050	672507	S91 F050	672527	3
	63	S91 CS063	672488	S91 E063	672508	S91 F063	672528	3
	80	S91 CS080	672489	S91 E080	672509	S91 F080	672529	3
	100	S91 CS100	672490	S91 E100	672510	S91 F100	672530	3



**3 x 1P  
6 mod.**

27mm	20	S91.3 CS020	672491	S91.3 E020	672511	S91.3 F020	672531	1
	25	S91.3 CS025	672492	S91.3 E025	672512	S91.3 F025	672532	1
	32	S91.3 CS032	672493	S91.3 E032	672513	S91.3 F032	672533	1
	35	S91.3 CS035	672494	S91.3 E035	672514	S91.3 F035	672534	1
	40	S91.3 CS040	672495	S91.3 E040	672515	S91.3 F040	672535	1
	50	S91.3 CS050	672496	S91.3 E050	672516	S91.3 F050	672536	1
	63	S91.3 CS063	672497	S91.3 E063	672517	S91.3 F063	672537	1
	80	S91.3 CS080	672498	S91.3 E080	672518	S91.3 F080	672538	1
	100	S91.3 CS100	672499	S91.3 E100	672519	S91.3 F100	672539	1

## Dimensions - Series S90

