











Selection table of compact MCB's - Unibis™

Page no.	Series	Applications	Poles	Add-on devices	Tripping characteristic	Rating current (A)	Short-circuit capacity (kA)
A.60	EPC 451N	 	1+N(1mod)	yes	B-C	2 - 40	4.5 → 6
A.61	EPC 61N	 	1+N(1mod)	yes	B-C	2 - 40	6 → 10
A.63	EPC 611	 	1P+1P(1mod)	yes	B-C	2 - 40	6 → 6
A.64	EPC 45	 	2,3,4	yes	B-C	2 - 40	4.5 → 6
A.66	EPC 60	 	2,3,4	yes	B-C	2 - 40	6 → 10

2 circuits in 1 mo

ElfaPlus Unibis™: the solution

Unibis™ compact MCB's are one of the latest introductions in the ElfaPlus range and are developed to **reduce the size of the distribution board to the minimum**. The performances are upgraded to **10kA**.

Circuit protection

A

B

C

D

E

F

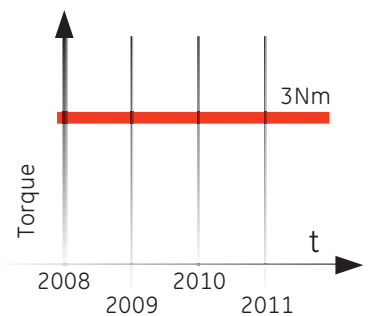
G

X



Safety terminals

Up to 6mm² + 4mm² wires combined.



New



Module

for space problems



1P+1P
in
1 mod

1P+N
in
1 mod

2P
in
1 mod

3P
in
2 mod

4P
in
2 mod

- ✔ Brandnew design:
 - 2P in 1 module,
- ✔ 3 and 4P in 2 modules
- ✔ Complete range: from 4.5–6–**10kA⁽¹⁾**,
2–**40** Amps, B and C curves
- ✔ 100% compatible with all ElfaPlus
auxiliaries and accessories
- ✔ 100% quality and reliability
acc. to EN 60898
- ✔ CEBC, NF, VDE, KEMA, IMQ certified

3 performances
up to 10kA



New

(1) 10kA, 1 P+N versions, acc. IEC 60947-2

The solution for

Unibis™ compact MCB's quality and reliability guaranteed

Circuit protection

A

B

C

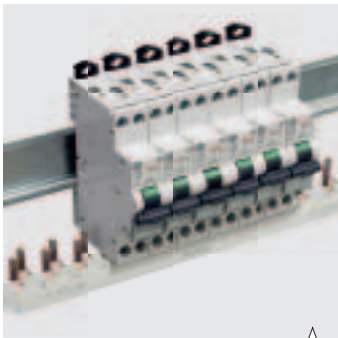
D

E

F

G

X



High performance clips

To fix the MCB to the DIN rail.



High performance torque

Up to 3Nm.

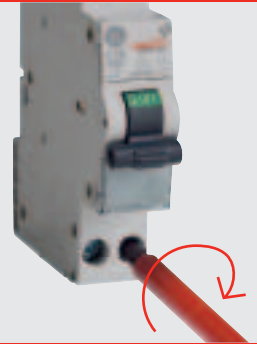
Easy to replace

Double clips make it easy to replace the MCB's, especially when a busbar is installed.



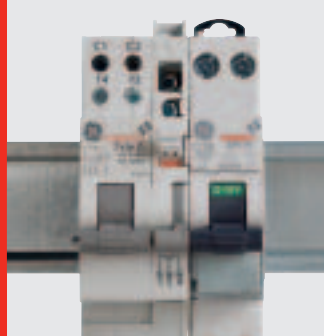
Userfriendly

All screws are on the same level to work fast and easy.



Green or red flag on toggle with isolation applications

Correct information about the real position. Minimum 5mm distance between open contacts is ensured.

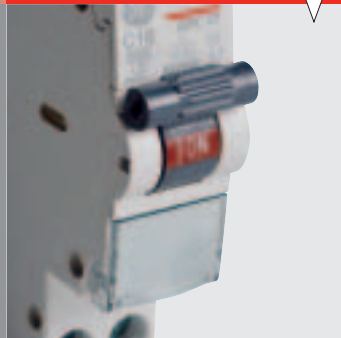


Part of the family

Unibis™ MCB's fit perfectly in the Redline range.

Safety terminals IP20

The capacity of Unibis™ terminals has been doubled. Connection possibilities: (2 x 4mm²) or (1 x 4mm²) + (1 x 6mm²).



Full functionality

A small auxiliary contact is the interface to the complete functionality of the Redline auxiliaries and accessories.



New

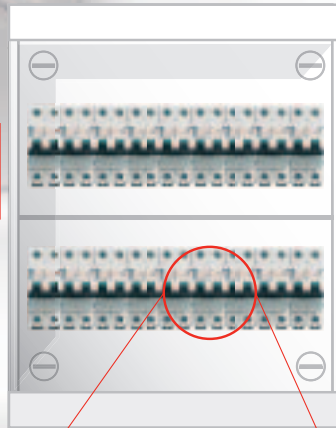


renovations

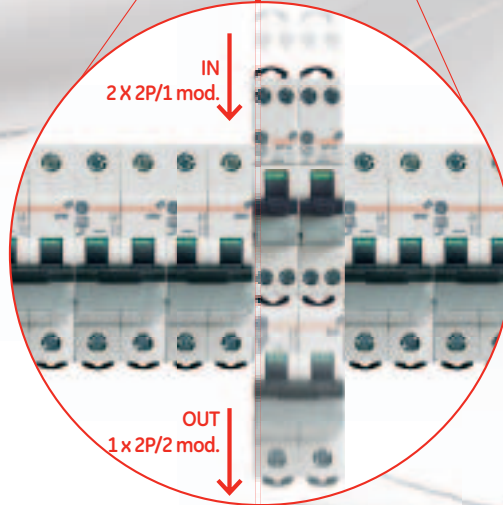
Saving up to 50% space
in distribution boards!

Before

18 x 2P MCB's
36 MODULES



Replacing standard
MCB's by compact
Unibis™ MCB's

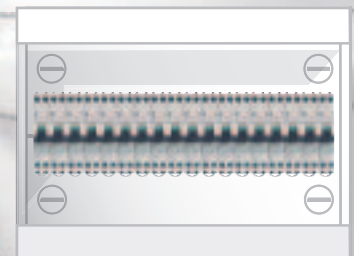


OR

FREE DIN-RAIL FOR
EXTENSIONS



DISTRIBUTION BOARD
REDUCED BY 50%



After

18 x 2P MCB's
18 MODULES

New

Technical data of compact MCB's

Series			EPC 451N
Standards			EN 60898-1
Tripping characteristics			B,C
Nominal current		(In)	2-40
Calibration temperature		(°C)	30
Number of poles (# mod)			1+N (1 mod)
Neutral pole protected			-
Nominal voltage Un AC		1P+N (V)	240
		1P+1P (V)	-
		2P (V)	-
		3P (V)	-
		4P (V)	-
Nominal voltage Un DC		2P (V=)	-
Frequency		(Hz)	50/60
		in DC	Thresh. magn. + 40%
		for 400 Hz	Thresh. magn. + 50%
Maximum service voltage Ub max		(V)	250
Minimum service voltage Ub min		(V)	12
Selectivity class (EN 60898-1)			3
Rated insulation voltage		Pollution degree 2 (V)	500
		Pollution degree 3 (V)	400
Impulse withstand test voltage		(kV)	6
Insulation resistance		(MΩ)	1000
Dielectric rigidity		(kV)	2.5
Vibration resistance (in x,y,z direction) (IEC 77/16.3)		(g)	3
Endurance		Electrical at Un,In	10000 ⁽¹⁾
		Mechanical	20000
Utilisation category (EN 60947-2)			A
Mounting position: vertical/horizontal			any
Incoming top or bottom			yes
Protection degree (outside/inside enclosure with door)			IP20/IP40
Selfextinguish degree (acc. UL 94)			V2
Tropicalisation (acc. EN 60068-2/DIN 40046)			+55°C/95%RH
Operating temperature		(°C)	-25/+55
Storage temperature		(°C)	-55/+55
Terminal capacity		Rigid cable min/max (top) (mm ²)	1/16 ⁽²⁾
		Flexible cable min/max (top) (mm ²)	1/10 ⁽²⁾
		Rigid cable min/max (bottom) (mm ²)	1/16 ⁽²⁾
		Flexible cable min/max (bottom) (mm ²)	1/10 ⁽²⁾
		Torque (Nm)	3
Add-on devices		Auxiliary contacts	yes
		Tele U	yes ⁽³⁾
		Tele L	yes ⁽³⁾
		Tele MP	yes ⁽³⁾
		PBS	yes ⁽³⁾
Busbar systems		Pin (top/bottom)	yes/yes
		Fork (top/bottom)	no/no
Accessories			yes
Width per mod.		(mm)	18
Weight per mod.		(g)	125
Package			12
Approvals			KEMA, IMQ
CE- marking			yes
Page			A.60

Short-circuit capacity of compact MCB's

Series			EPC 451N
Short-circuit capacity AC			(kA)
EN/IEC 60898-1 Icn		1P+N 240 V	4.5
		1P+1P 240 V	-
		2P 415 V	-
		3P 415 V	-
		4P 415 V	-
EN 60947-2 Icu		1P+N 230 V	6
		1P+1P 230 V	-
		2P 415 V	-
		3P 415 V	-
		4P 415 V	-
Short-circuit capacity DC			
EN 60947-2 Icu		2P 96 V=	

(1) 8000 for 32 and 40 A
 (2) Also accepting (2x4mm²) or (1x4mm²)+(1x6mm²)
 (3) Requires CA auxiliary contact as interface
 (4) Icn1= 6kA

EPC 61N	EPC 611	EPC 45	EPC 60
EN 60898-1	EN 60898-1	EN 60898-1	EN 60898-1
B,C	B,C	B,C	B,C
2-40	2-40	2-40	2-40
30	30	30	30
1+N (1 mod)	1P+1P (1 mod)	2 (1 mod), 3&4 (2 mod)	2 (1 mod), 3&4 (2 mod)
-	-	-	-
240	-	-	-
-	240	-	-
-	-	415	415
-	-	415	415
-	-	415	415
-	-	96	96
50/60	50/60	50/60	50/60
Thresh. magn. + 40%	Thresh. magn. + 40%	Thresh. magn. + 40%	Thresh. magn. + 40%
Thresh. magn. + 50%	Thresh. magn. + 50%	Thresh. magn. + 50%	Thresh. magn. + 50%
250	250/440	250/440	250/440
12	12	12	12
3	3	3	3
500	500	500	500
400	400	400	400
6	6	6	6
1000	1000	10000	10000
2.5	2.5	2.5	2.5
3	3	3	3
10000 ⁽¹⁾	10000 ⁽¹⁾	10000 ⁽¹⁾	10000 ⁽¹⁾
20000	20000	20000	20000
A	A	A	A
any	any	any	any
yes	yes	yes	yes
IP20/IP40	IP20/IP40	IP20/IP40	IP20/IP40
V2	V2	V2	V2
+55°C/95%RH	+55°C/95%RH	+55°C/95%RH	+55°C/95%RH
-25/+55	-25/+55	-25/+55	-25/+55
-55/+55	-55/+55	-55/+55	-55/+55
1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾
1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾
1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾
1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾
3	3	3	3
yes	yes	yes	yes
yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾
yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾
yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾
yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾
yes/yes	yes/yes	yes/yes	yes/yes
no/no	no/no	no/no	no/no
yes	yes	yes	yes
18	18	18/36	18/36
125	160	160/320	160/320
12	12/6	12/6	12/6
VDE, KEMA, IMQ	VDE, IMQ	IMQ, NF	VDE, IMQ, NF, CEBEC
yes	yes	yes	yes
A.61	A.63	A.64	A.66

EPC 61N	EPC 611	EPC 45	EPC 60
(kA)	(kA)	(kA)	(kA)
6	-	-	-
-	6	-	-
-	-	4.5	6
-	-	4.5	6
-	-	4.5	6
10	-	-	-
-	6	-	-
-	-	6	10
-	-	6	10
-	-	6	10
-	-	4.5	6

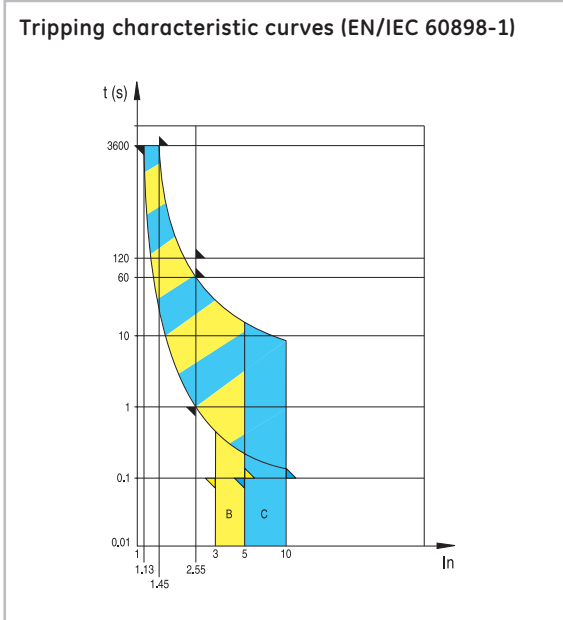
(1) 8000 for 32 and 40 A
 (2) Also accepting (2x4mm²) or (1x4mm²)+(1x6mm²)
 (3) Requires CA auxiliary contact as interface
 (4) Icn1= 6kA



New

Characteristics according to IEC/EN 60898-1

Miniature Circuit Breakers (MCB) are intended for the protection of wiring installations against both overloads and short-circuits in domestic or commercial wiring installations where operation is possible by uninstructed people.



Magnetic release

An electromagnet with plunger ensures instantaneous tripping in the event of short-circuit. The standard distinguishes two different types, following the current for instantaneous release: type B and C.

In	Test (A) current	Tripping time	Applications
B	3 x In	0.1 < t < 45s (In ≤ 32A) 0.1 < t < 90s (In > 32A)	Only for resistive loads such as: - electrical heating - water heater - stoves
	5 x In	t < 0.1s	
C	5 x In	0.1 < t < 15s (In ≤ 32A) 0.1 < t < 30s (In > 32A)	Usual loads such as: - lighting - socket-outlets - small motors
	10 x In	t < 0.1s	

Thermal release

The release is initiated by a bimetal strip in case of overload. The standard defines the range of releases for specific overload values. Reference ambient temperature is 30°C.

Test current	Tripping time
1.13 x In	t ≥ 1h (In ≤ 63A) t ≥ 2h (In > 63A)
1.45 x In	t < 1h (In ≤ 63A) t < 2h (In > 63A)
2.55 x In	1s < t < 60s (In ≤ 32A) 1s < t < 120s (In > 32A)

Influence of ambient air temperature on the rated current

The maximum value of the current which can flow through an MCB depends of the nominal current of the MCB, the conductor cross-section as well as of the ambient air temperature.

The values shown in the table below are for devices in free air. For devices installed with other modular devices in the same switchboard a correction factor (K) shall be applied relative to the mounting situation of the MCB, the ambient temperature and the number of main circuits in the installation (EN 60439-1):

No. of devices	K
2 or 3	0.9
4 or 5	0.8
6 to 9	0.7
> 10	0.6

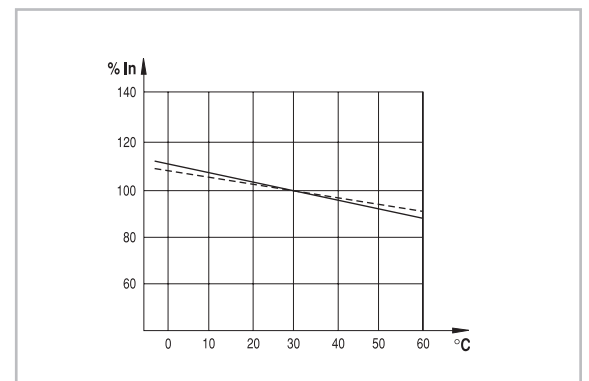
Calculation example

Within a distribution panel consisting of eight MCB's 2PC16 with an operating ambient temperature of 45°C, which is the highest temperature at which the MCB can operate without unwanted tripping.

Calculation

The correction factor K=0.7, for use in an eight circuit installation: 16A x 0.7= 11.2A
As the MCB is working at 45°C, another factor shall be applied (90% = 0.9):
In at 45°C = In at 30°C x 0.9 = 11.2A x 0.9 = 10.1A

The thermal calibration of the MCB's was carried out at an ambient temperature of 30°C. Ambient temperatures different from 30°C influence the bimetal and this results in earlier or later thermal tripping.



Tripping current as a function of the frequency

All MCB's are designed to work at frequencies of 50-60 Hz, therefore to work at different values, consideration must be given to the variation of the tripping characteristics. The thermal tripping does not change with variation of the frequency but the magnetic tripping values can be up to 50% higher than the ones at 50-60 Hz. For DC current magnetic tripping is 50% higher.

Tripping current variations

60Hz	100Hz	200Hz	300Hz	400Hz
1	1.1	1.2	1.4	1.5

Power losses

The power losses are calculated by measuring the voltage drop between the incoming and the outgoing terminals of the device at rated current.

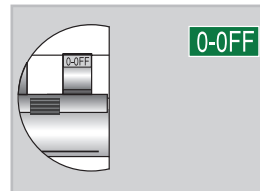
Power losses per pole

In (A)	Voltage drop (V)	Energy loss Pw (W)	Resistance Z (mOhm)
2	0.55	1.1	275.00
4	0.34	1.35	84.38
6	0.25	1.52	42.22
10	0.16	1.64	16.40
16	0.13	2.1	8.20
20	0.13	2.52	6.30
25	0.12	3.1	4.96
32	0.12	3.8	3.71
40	0.11	4.46	2.79

Toggle

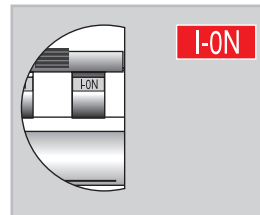
The toggle permits to switch the MCB ON or OFF

Printing on the toggle provides information of the real contact position.



0-OFF

Contacts in open position. Ensures a distance between contacts > 5mm in the Unibis™ range.



I-ON

Contacts in closed position. Ensures continuity in the main circuit.



Compact MCB's

Series EPC 451N

EN/IEC 60898-1

4500

3

EN/IEC 60947-2

6kA

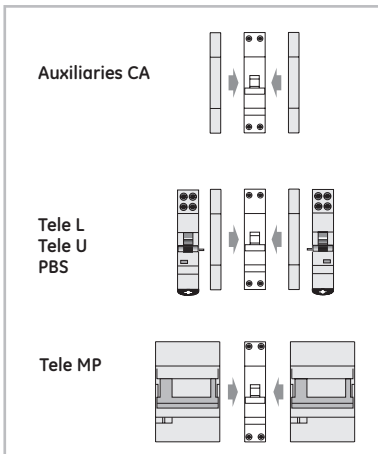
Applications



Approvals / Marking



Add-on devices



When coupling an add-on device (Tele L, Tele U, PBS) to the MCB, an universal CA auxiliary has to be coupled first as interface.

Auxiliary contacts ● pg C.6

Busbars ● pg E.2
Dimensions ● pg A.82

Performances

Thermal setting I_n	(A) 2-40
Rated voltage AC U_n	(V) 240
Minimum operating voltage U_{Bmin}	(V) 12
Tripping characteristics	B-C
Selectivity class	3
Mechanical/electrical endurance	20000/10000 ⁽¹⁾
Tropicalisation acc. to EN/IEC 60068-2	55°C at 95% RH
Terminal capacity flexible/rigid cable	(mm ²) 10-16 ⁽²⁾
Poles	1P+N (1 mod)
Weight	(g) 125

Short-circuit capacity

Acc. to EN/IEC 60898-1

Poles	V	I_{cn}/I_{cs} (kA)
1P+N	240	4.5

Acc. to EN/IEC 60947-2

Poles	V	I_{cu} (kA)
1P+N	240	6

Attention: do not use on IT net configuration

Series EPC 451N - 4.5kA - characteristics B-C

In (A)	B		C		Pack.
	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
1P + N	2 ⁽³⁾ EPC 451N B02	692810	EPC 451N C02	692781	12
1 mod.	4 ⁽³⁾ EPC 451N B04	692811	EPC 451N C04	692782	12
	6 EPC 451N B06	692812	EPC 451N C06	692783	12
	10 EPC 451N B10	692813	EPC 451N C10	692784	12
	16 EPC 451N B16	692814	EPC 451N C16	692786	12
	20 EPC 451N B20	692815	EPC 451N C20	692787	12
	25 EPC 451N B25	692816	EPC 451N C25	692788	12
	32 EPC 451N B32	692817	EPC 451N C32	692789	12
	40 ⁽³⁾ EPC 451N B40	692818	EPC 451N C40	692790	12

(1) 8000 for 32 and 40A

(2) Also accepting (2x4mm²) or (1x4mm²)+(1x6mm²)

(3) On demand

New



Compact MCB's

Series EPC 61N



EN/IEC 60898-1	6000
	3
EN/IEC 60947-2	10kA

Series EPC 451N

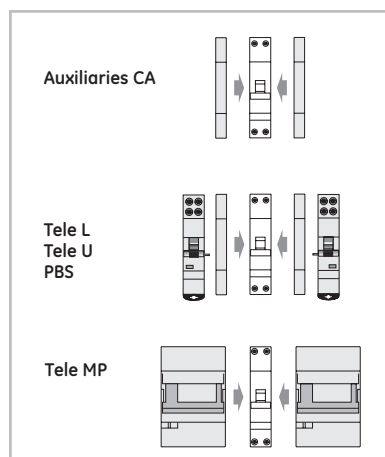
Applications



Approvals / Marking



Add-on devices



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Auxiliary contacts ● pg C.6

Busbars ● pg E.2
Dimensions ● pg A.82

Performances

Thermal setting I_n	(A) 2-40
Rated voltage AC U_n	(V) 240
Minimum operating voltage U_{Bmin}	(V) 12
Tripping characteristics	B-C
Selectivity class	3
Mechanical/electrical endurance	20000/10000 ⁽¹⁾
Tropicalisation acc. to EN/IEC 60068-2	55°C at 95% RH
Terminal capacity flexible/rigid cable	(mm ²) 10-16 ⁽²⁾
Poles	1P+N (1 mod)
Weight	(g) 125

Short-circuit capacity

Acc. to EN/IEC 60898-1

Poles	V	I_{cn}/I_{cs} (kA)
1P+N	240	6

Acc. to EN/IEC 60947-2

Poles	V	I_{cu} (kA)
1P+N	240	10

Attention: do not use on IT net configuration

Series EPC 61N - 6kA - characteristics B-C

In (A)	B		C		Pack.	
	Cat. No.	Ref. No.	Cat. No.	Ref. No.		
1P + N 1 mod.	2	EPC 61N B02	692819	EPC 61N C02	692791	12
	4	EPC 61N B04	692820	EPC 61N C04	692792	12
	6	EPC 61N B06	692821	EPC 61N C06	692793	12
1/2 N	10	EPC 61N B10	692822	EPC 61N C10	692794	12
	13	EPC 61N B13	692604	EPC 61N C13	692795	12
	16	EPC 61N B16	692823	EPC 61N C16	692796	12
	20	EPC 61N B20	692824	EPC 61N C20	692797	12
	25	EPC 61N B25	692825	EPC 61N C25	692798	12
	32	EPC 61N B32	692826	EPC 61N C32	692799	12
	40	EPC 61N B40	692827	EPC 61N C40	692800	12

(1) 8000 for 32 and 40A

(2) Also accepting (2x4mm²) or (1x4mm²)+(1x6mm²)



New

Notes

Circuit protection

A

B

C

D

E

F

G

X

Grid of dotted lines for notes.



Compact MCB's

Series EPC 611



EN/IEC 60898-1

6000

3

EN/IEC 60947-2

6kA

Performances

Thermal setting In	(A) 2-40
Rated voltage AC Un	(V) 230
Minimum operating voltage U _{Bmin}	(V) 12
Tripping characteristics	B-C
Selectivity class	3
Mechanical/electrical endurance	20000/10000 ⁽¹⁾
Tropicalisation acc. to EN/IEC 60068-2	55°C at 95% RH
Terminal capacity flexible/rigid cable	(mm ²) 10-16 ⁽²⁾
Poles	1P+1P (1 mod)
Weight	(g) 125

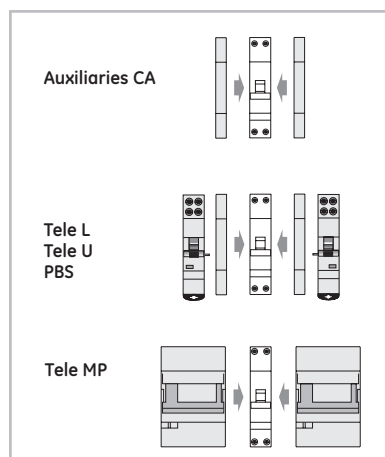
Applications



Approval / Marking



Add-on devices



When coupling an add-on device (Tele L, Tele U, PBS) to the MCB, an universal CA auxiliary has to be coupled first as interface.

Auxiliary contacts ● pg C.6

Busbars ● pg E.2
Dimensions ● pg A.82

Short-circuit capacity

Acc. to EN/IEC 60898-1

Poles	V	I _{cn} /I _{cs} (kA)
1 + 1	230	6

Acc. to EN/IEC 60947-2

Poles	V	I _{cu} (kA)
1 + 1	230	6

Attention: do not use on IT net configuration

Series EPC 611 - 6kA - characteristics B-C

In (A)	B		C		Pack.
	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
2	EPC 611 B02	692689	EPC 611 C02	692699	12
4	EPC 611 B04	692690	EPC 611 C04	692700	12
6	EPC 611 B06	692691	EPC 611 C06	692701	12
10	EPC 611 B10	692692	EPC 611 C10	692702	12
13	EPC 611 B13	692693	EPC 611 C13	692703	12
16	EPC 611 B16	692694	EPC 611 C16	692704	12
20	EPC 611 B20	692695	EPC 611 C20	692705	12
25	EPC 611 B25	692696 ⁽³⁾	EPC 611 C25	692706 ⁽³⁾	12
32	EPC 611 B32	692697 ⁽³⁾	EPC 611 C32	692707 ⁽³⁾	12
40	EPC 611 B40	692698 ⁽³⁾	EPC 611 C40	692708 ⁽³⁾	12
25+10	EPC 611 B25B10	693382	EPC 611 C25C10	693391	12
25+13	EPC 611 B25B13	693383	EPC 611 C25C13	693392	12
25+16	EPC 611 B25B16	693384	EPC 611 C25C16	693393	12
32+10	EPC 611 B32B10	693385	EPC 611 C32C10	693394	12
32+13	EPC 611 B32B13	693386	EPC 611 C32C13	693395	12
32+16	EPC 611 B32B16	693387	EPC 611 C32C16	693396	12
40+10	EPC 611 B40B10	693388	EPC 611 C40C10	693397	12
40+13	EPC 611 B40B13	693389	EPC 611 C40C13	693398	12
40+16	EPC 611 B40B16	693390	EPC 611 C40C16	693399	12

(1) 8000 for 32 and 40A
(2) Also accepting (2x4mm²) or (1x4mm²)+(1x6mm²)
(3) On request

Series EPC 101N

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New



Compact MCB's

Series EPC 45

EN/IEC 60898-1	4500
	3
EN/IEC 60947-2	6kA

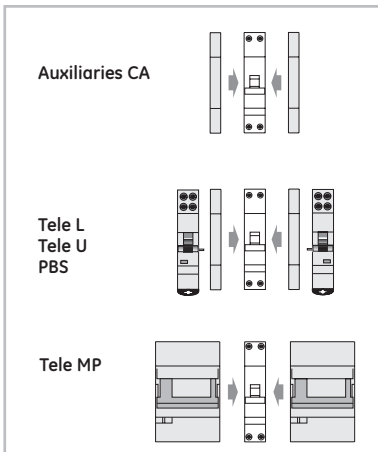
Applications



Approvals / Marking



Add-on devices



When coupling an add-on device (Tele L, Tele U, PBS) to the MCB, an universal CA auxiliary has to be coupled first as interface.

Performances

Thermal setting I_n	(A) 2-40
Rated voltage AC U_n	(V) 240/415
Minimum operating voltage U_{Bmin}	(V) 12
Tripping characteristics	B-C
Selectivity class	3
Mechanical/electrical endurance	20000/10000 ⁽¹⁾
Tropicalisation acc. to EN/IEC 60068-2	55°C at 95% RH
Terminal capacity flexible/rigid cable	(mm ²) 10-16 ⁽²⁾
Poles	2, 3, 4
Weight	(g/mod) 160

Short-circuit capacity

Acc. to EN/IEC 60898-1

Poles	V	I_{cn}/I_{cs} (kA)
2P	415	4.5
3P	415	4.5
4P	415	4.5

Acc. to EN/IEC 60947-2

Poles	V	I_{cu} (kA)
2P	415	6
3P	415	6
4P	415	6

DC acc. EN/IEC 60947-2

Poles	U_n (V=)	I_{cu} (kA)
2P	96	4,5

(1) 8000 for 32 and 40A

(2) Also accepting (2x4mm²) or (1x4mm²)+(1x6mm²)


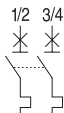

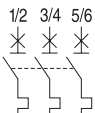

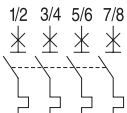
Auxiliary contacts ● pg C.6

Busbars ● pg E.2
Dimensions ● pg A.82

New



Series EPC 45 - 4.5kA - characteristics B-C

	In (A)	B		C		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
 <p>2P 1 mod.</p> <p>1/2 3/4</p>  <p>2/1 4/3</p>	2	EPC 452 B02	692608	EPC 452 C02	692527	12
	4	EPC 452 B04	692609	EPC 452 C04	692528	12
	6	EPC 452 B06	692610	EPC 452 C06	692529	12
	10	EPC 452 B10	692611	EPC 452 C10	692530	12
	16	EPC 452 B16	692612	EPC 452 C16	692531	12
	20	EPC 452 B20	692613	EPC 452 C20	692532	12
	25	EPC 452 B25	692614	EPC 452 C25	692533	12
	32	EPC 452 B32	692615	EPC 452 C32	692534	12
	40	EPC 452 B40	692616	EPC 452 C40	692535	12
	 <p>3P⁽¹⁾ 2 mod.</p> <p>1/2 3/4 5/6</p>  <p>2/1 4/3 6/5</p>	2	EPC 453 B02	692617	EPC 453 C02	692536 ⁽¹⁾
4		EPC 453 B04	692618	EPC 453 C04	692537 ⁽¹⁾	6
6		EPC 453 B06	692619	EPC 453 C06	692538 ⁽¹⁾	6
10		EPC 453 B10	692620	EPC 453 C10	692539 ⁽¹⁾	6
16		EPC 453 B16	692621	EPC 453 C16	692540 ⁽¹⁾	6
20		EPC 453 B20	692622	EPC 453 C20	692541 ⁽¹⁾	6
25		EPC 453 B25	692623	EPC 453 C25	692542 ⁽¹⁾	6
32		EPC 453 B32	692624	EPC 453 C32	692543 ⁽¹⁾	6
40		EPC 453 B40	692625	EPC 453 C40	692544 ⁽¹⁾	6
 <p>4P 2 mod.</p> <p>1/2 3/4 5/6 7/8</p>  <p>2/1 4/3 6/5 8/7</p>		2	EPC 454 B02	692626	EPC 454 C02	692545
	4	EPC 454 B04	692627	EPC 454 C04	692546	6
	6	EPC 454 B06	692628	EPC 454 C06	692547	6
	10	EPC 454 B10	692629	EPC 454 C10	692548	6
	16	EPC 454 B16	692630	EPC 454 C16	692549	6
	20	EPC 454 B20	692631	EPC 454 C20	692550	6
	25	EPC 454 B25	692632	EPC 454 C25	692551	6
	32	EPC 454 B32	692633	EPC 454 C32	692552	6
	40	EPC 454 B40	692634	EPC 454 C40	692553	6

(1) The auxiliary contact CA must be placed only on the left side of the 3P MCB's

Series EPC 45

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New



Compact MCB's

Series EPC 60

EN/IEC 60898-1	6000
	3
EN/IEC 60947-2	10kA

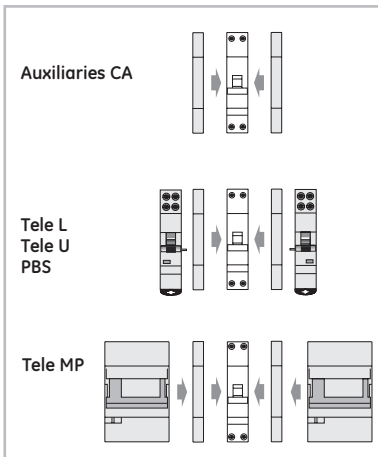
Applications



Approvals / Marking



Add-on devices



When coupling an add-on device (Tele L, Tele U, PBS, Tele MP) to the MCB, an universal CA auxiliary has to be coupled first as interface.

Performances

Thermal setting I_n	(A) 2-40
Rated voltage AC U_n	(V) 240/415
Minimum operating voltage U_{Bmin}	(V) 12
Tripping characteristics	B-C
Selectivity class	3
Mechanical/electrical endurance	20000/10000 ⁽¹⁾
Tropicalisation acc. to EN/IEC 60068-2	55°C at 95% RH
Terminal capacity flexible/rigid cable	(mm ²) 10-16 ⁽²⁾
Poles	2,3,4
Weight/mod	(g) 160

Short-circuit capacity

Acc. to EN/IEC 60898-1

Poles	V	I_{cn}/I_{cs} (kA)
2P	240/415	6
3P	240/415	6
4P	240/415	6

Acc. to EN/IEC 60947-2

Poles	V	I_{cu} (kA)
2P	240/415	10
3P	240/415	10
4P	240/415	10

(1) 8000 for 32 and 40A

(2) Also accepting (2x4mm²) or (1x4mm²)+(1x6mm²)




Auxiliary contacts ● pg C.6

Busbars ● pg E.2
Dimensions ● pg A.82

New



Series EPC 60 - 6kA - characteristics B-C

	In (A)	B		C		Pack.	
		Cat. No.	Ref. No.	Cat. No.	Ref. No.		
 <p>2P 1 mod.</p> <p>1/2 3/4</p> <p>2/1 4/3</p>	2	EPC 62 B02	692635	EPC 62 C02	692554	12	
	4	EPC 62 B04	692636	EPC 62 C04	692555	12	
	6	EPC 62 B06	692637	EPC 62 C06	692556	12	
	10	EPC 62 B10	692638	EPC 62 C10	692557	12	
	16	EPC 62 B16	692639	EPC 62 C16	692558	12	
	20	EPC 62 B20	692640	EPC 62 C20	692559	12	
	25	EPC 62 B25	692641	EPC 62 C25	692560	12	
	32	EPC 62 B32	692642	EPC 62 C32	692561	12	
	40	EPC 62 B40	692643	EPC 62 C40	692562	12	
	 <p>3P⁽¹⁾ 2 mod.</p> <p>1/2 3/4 5/6</p> <p>2/1 4/3 6/5</p>	2	EPC 63 B02	692644	EPC 63 C02	692563 ⁽¹⁾	6
		4	EPC 63 B04	692645	EPC 63 C04	692564 ⁽¹⁾	6
6		EPC 63 B06	692646	EPC 63 C06	692565 ⁽¹⁾	6	
10		EPC 63 B10	692647	EPC 63 C10	692566 ⁽¹⁾	6	
16		EPC 63 B16	692648	EPC 63 C16	692567 ⁽¹⁾	6	
20		EPC 63 B20	692649	EPC 63 C20	692568 ⁽¹⁾	6	
25		EPC 63 B25	692650	EPC 63 C25	692569 ⁽¹⁾	6	
32		EPC 63 B32	692651	EPC 63 C32	692570 ⁽¹⁾	6	
40		EPC 63 B40	692652	EPC 63 C40	692571 ⁽¹⁾	6	
 <p>4P 2 mod.</p> <p>1/2 3/4 5/6 7/8</p> <p>2/1 4/3 6/5 8/7</p>		2	EPC 64 B02	692653	EPC 64 C02	692572	6
		4	EPC 64 B04	692654	EPC 64 C04	692573	6
	6	EPC 64 B06	692655	EPC 64 C06	692574	6	
	10	EPC 64 B10	692656	EPC 64 C10	692575	6	
	16	EPC 64 B16	692657	EPC 64 C16	692576	6	
	20	EPC 64 B20	692658	EPC 64 C20	692577	6	
	25	EPC 64 B25	692659	EPC 64 C25	692578	6	
	32	EPC 64 B32	692660	EPC 64 C32	692579	6	
	40	EPC 64 B40	692661	EPC 64 C40	692580	6	

(1) The auxiliary contact CA must be placed only on the left side of the 3P MCB's



New