



New

ElfaPlus *Unibis*TM

Compact MCB's

Saving up to 50% space in
distribution boards

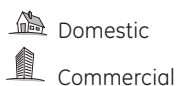


GE imagination at work

2	Advantages
6	Miniature circuit breakers - Series EPC 31N
7	Miniature circuit breakers - Series EPC 451N
8	Miniature circuit breakers - Series EPC 61N
9	Miniature circuit breakers - Series EPC 101N
10	Miniature circuit breakers - Series EPC 611
12	Miniature circuit breakers - Series EPC 30
14	Miniature circuit breakers - Series EPC 45
16	Miniature circuit breakers - Series EPC 60
18	Miniature circuit breakers - Series DCC 41N
19	Miniature circuit breakers - Series DCC 61N
20	Unibis™ Interface auxiliary - Series CA
22	Busbar System - VBS
24	Technical data
31	Dimensions
32	Numerical index

Quick overview

Page no.	Series	Applications	Poles	Add-on devices	Tripping curve	Rating current (A)	Short-circuit capacity (kA)
6	EPC 31N	 	1+N(1mod)	yes	C	2 - 40	 3
7	EPC 451N	 	1+N(1mod)	yes	B-C	2 - 40	 4.5  6
8	EPC 61N	 	1+N(1mod)	yes	B-C	2 - 40	 6  7.5
9	EPC 101N	 	1+N(1mod)	yes	B-C	2 - 40	 10 ⁽¹⁾  10
10	EPC 611	 	1P+1P(1mod)	yes	B-C	2 - 40	 6  6
12	EPC 30	 	2, 3, 4	yes	B-C	2 - 40	 3  3
14	EPC 45	 	2, 3, 4	yes	B-C	2 - 40	 4.5  6
16	EPC 60	 	2, 3, 4	yes	B-C	2 - 40	 6  7.5
18	DCC 41N		1+N(1mod)	yes	C	6 - 40	 4.5
19	DCC 61N		1+N(1mod)	yes	C	2 - 40	 6



B: 3-5 In
C: 5-10 In
(1) Icn1 = 6kA

EN/IEC 60898-1 
EN/IEC 60947-2 

2 circuits in 1 mo

ElfaPlus *Unibis*[™]: the solution

Unibis[™] 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**.

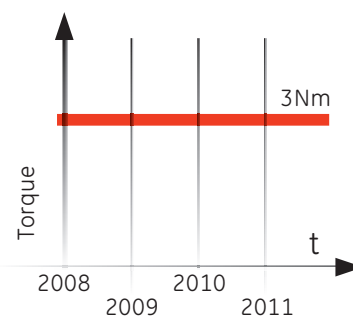
The performances are upgraded to **10kA**.



Safety terminals

Up to 6mm² + 4mm² wires combined.

New



Module for space problems



1P+1P
in
1 mod

1P+N
in
1 mod⁽¹⁾

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 3–4.5–6–**10kA⁽²⁾**,
2–40 Amps, B and C curves
- ✓ 100% compatible with all ElfaPlus
auxiliaries and accessories
- ✓ 100% quality and reliability
acc. to EN 60898
- ✓ KEMA, CEBEC, NF, VDE, IMQ certified

4 performances
up to 10kA



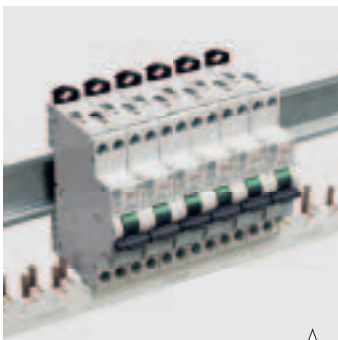
(1) Neutral left or right available
(2) 10kA for 1P+N versions

The solution for

ElfaPlus *Unibis*™:

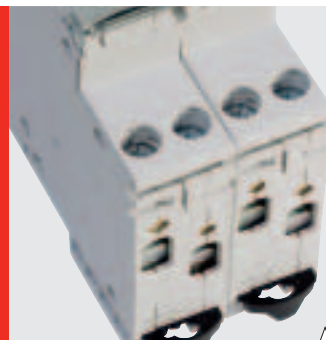
quality and reliability guaranteed

New



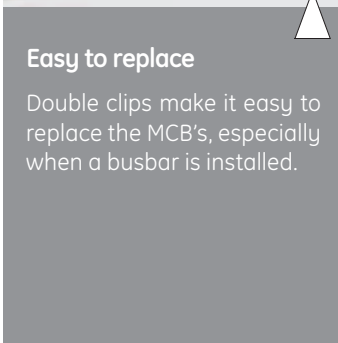
High performance clips

To fix the MCB to the DIN rail.



High performance torque

Up to 3Nm.



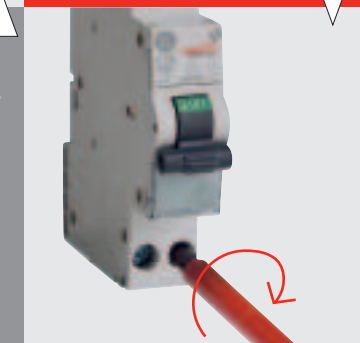
Easy to replace

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.



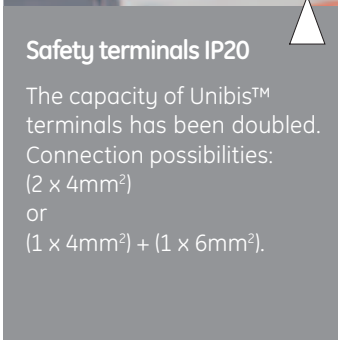
Green or red flag on toggle with isolation applications

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



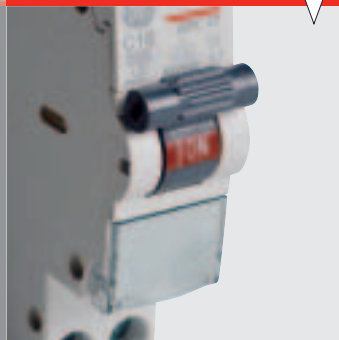
Part of the family

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



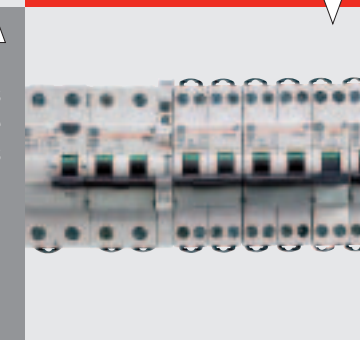
Safety terminals IP20

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 ElfaPlus auxiliaries and accessories.

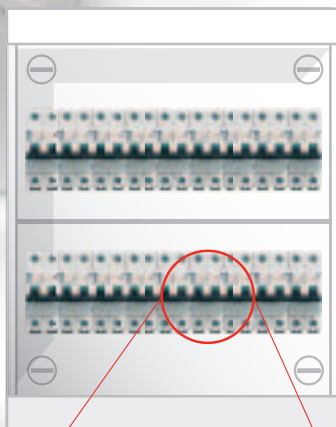


renovations

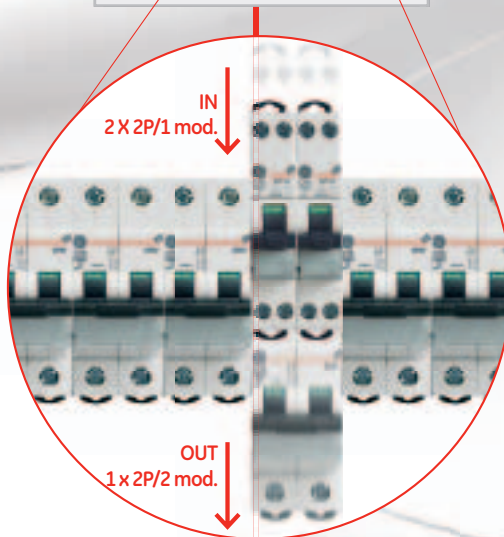
Saving up to 50% space
in distribution boards!

Before

18 x 2P MCB's
36 MODULES



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



OR

FREE DIN-RAIL FOR
EXTENSIONS

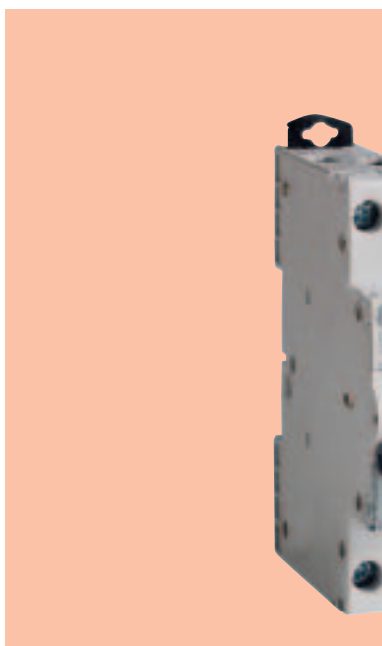


DISTRIBUTION BOARD
REDUCED BY 50%



After

18 x 2P MCB's
18 MODULES



Compact MCB's

Series EPC 31N

EN/IEC 60898-1

3000

3

EN/IEC 60947-2

3kA

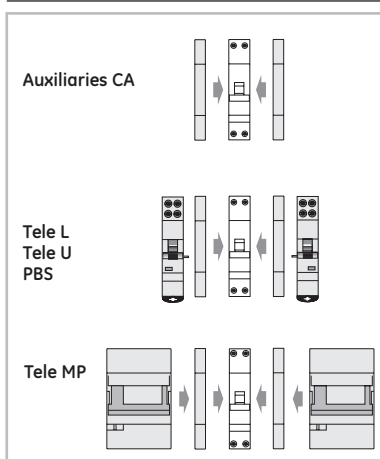
Applications



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.

Auxiliary contact CA ● page 20
Other auxiliaries ● General cat.

Busbars ● page 22
Dimensions ● page 29

Performances

Thermal setting I_n	(A)	2-40
Rated voltage AC U_n	(V)	240
Minimum operating voltage U_{Bmin}	(V)	12
Tripping characteristic		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	3

Acc. to EN/IEC 60947-2

Poles	V	I_{cu} (kA)
1P+N	240	3

Attention: do not use on IT net configuration

Series EPC 31N - 3kA - characteristic C

	I_n (A)	C		Pack.
		Cat. No.	Ref. No.	
1P + N 1 mod.	2	EPC 31N C02	692772	12
	4	EPC 31N C04	692773	12
	6	EPC 31N C06	692774	12
	10	EPC 31N C10	692775	12
1/2 N	16	EPC 31N C16	692776	12
	20	EPC 31N C20	692777	12
	25	EPC 31N C25	692778	12
	32	EPC 31N C32	692779	12
2/1 N	40	EPC 31N C40	692780	12

(1) 8000 for 32 and 40A

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

Compact MCB's

Series EPC 451N



EN/IEC 60898-1

4500

3

EN/IEC 60947-2

6 kA

Series EPC 451N

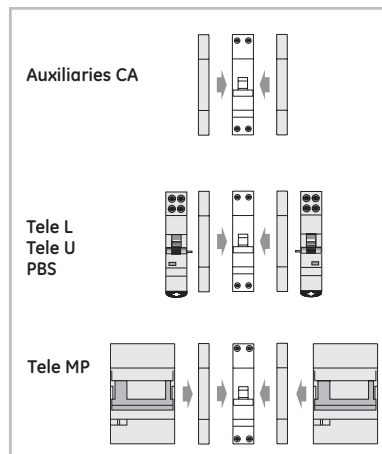
Applications



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.

Auxiliary contact CA ● page 20
Other auxiliaries ● General cat.

Busbars ● page 22
Dimensions ● page 29

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 1 mod.	2	EPC 451N B02	692810	EPC 451N C02	692781	12
	4	EPC 451N B04	692811	EPC 451N C04	692782	12
1/2 N	6	EPC 451N B06	692812	EPC 451N C06	692783	12
	10	EPC 451N B10	692813	EPC 451N C10	692784	12
2/1 N	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	EPC 451N B40	692818	EPC 451N C40	692790	12

(1) 8000 for 32 and 40A

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





Compact MCB's

Series EPC 61N

EN/IEC 60898-1	6000
	3
EN/IEC 60947-2	7.5kA

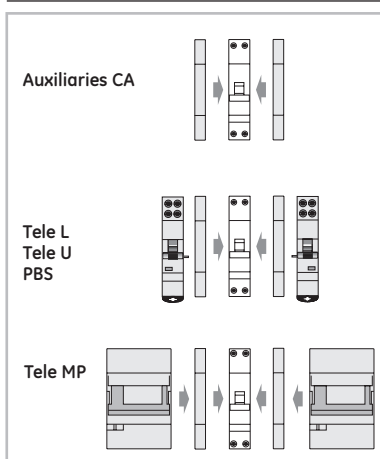
Applications



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.

Auxiliary contact CA ● page 20
Other auxiliaries ● General cat.

Busbars ● page 22
Dimensions ● page 29

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	7.5

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
	10	EPC 61N B10	692822	EPC 61N C10	692794	12
	13	EPC 61N B13	692604	EPC 61N C13	692795	12
1/2 N	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
	2/1 N					

(1) 8000 for 32 and 40A

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

Compact MCB's

Series EPC 101N



EN/IEC 60898-1

10000

3

EN/IEC 60947-2

10kA

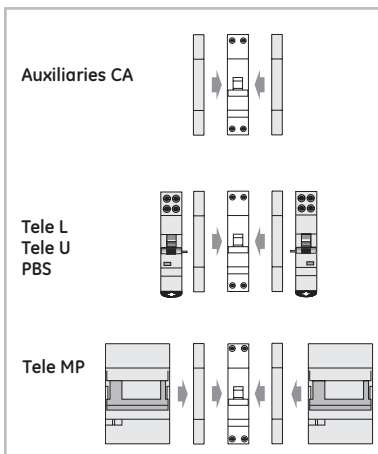
Applications



Approval / 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.

Auxiliary contact CA ● page 20
Other auxiliaries ● General cat.

Busbars ● page 22
Dimensions ● page 29

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	1+N (1 mod)
Weight	(g) 125

Short-circuit capacity

Acc. to EN/IEC 60898-1

Poles	V	I_{cn}/I_{cs} (kA) ⁽³⁾
1P+N	240	10

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 101N - 10kA - characteristics B-C

	In (A)	B		C		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
1P + N 1 mod.	2	EPC 101N B02	692828	EPC 101N C02	692801	12
	4	EPC 101N B04	692829	EPC 101N C04	692802	12
	6	EPC 101N B06	692830	EPC 101N C06	692803	12
	10	EPC 101N B10	692831	EPC 101N C10	692804	12
	13	EPC 101N B13	692605	EPC 101N C13	692606	12
1/2 N	16	EPC 101N B16	692832	EPC 101N C16	692805	12
	20	EPC 101N B20	692833	EPC 101N C20	692806	12
	25	EPC 101N B25	692834	EPC 101N C25	692807	12
	32	EPC 101N B32	692835	EPC 101N C32	692808	12
	40	EPC 101N B40	692836	EPC 101N C40	692809	12
2/1 N						

(1) 8000 for 32 and 40A

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

(3) I_{cn1} = 6kA





Compact MCB's

Series EPC 611

EN/IEC 60898-1

6000

3

EN/IEC 60947-2

6kA

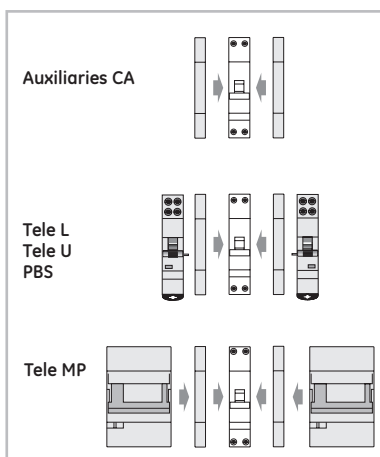
Applications



Approval / 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.

Auxiliary contact CA ● page 20
Other auxiliaries ● General cat.

Busbars ● page 22
Dimensions ● page 29

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+1P (1 mod)
Weight	(g) 125

Short-circuit capacity

Acc. to EN/IEC 60898-1

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

Acc. to EN/IEC 60947-2

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

Attention: do not use on IT net configuration

Series EPC 611 - 6kA - characteristics B-C

	B			C		
	In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Pack.
1P+1P 1 mod.	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
1/2 3/4 2/1 4/3	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	EPC 611 C25	692706	12
	32	EPC 611 B32	692697	EPC 611 C32	692707	12
	40	EPC 611 B40	692698	EPC 611 C40	692708	12

(1) 8000 for 32 and 40A

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

Notes

Grid of dotted lines for notes.





Compact MCB's

Series EPC 30

EN/IEC 60898-1

3000

3

EN/IEC 60947-2

3kA

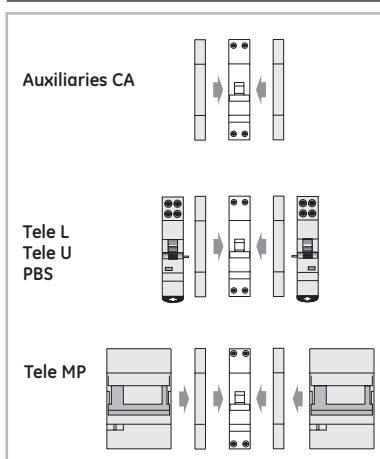
Applications



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 In	(A) 2-40
Rated voltage AC Un	(V) 240/415
Minimum operating voltage U_{Bmin}	(V) 12
Tripping characteristic	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	Icn/Ics (kA)
2P	415	3
3P	415	3
4P	415	3

Acc. to EN/IEC 60947-2

Poles	V	Icu (kA)
2P	415	3
3P	415	3
4P	415	3

DC acc. EN/IEC 60947-2

Poles	Un (V $\overline{=}$)	Icu (kA)
2P	96	3

(1) 8000 for 32/40A

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

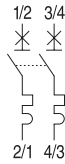
Auxiliary contact CA ● page 20
Other auxiliaries ● General cat.

Busbars ● page 22
Dimensions ● page 29

Series EPC 30 - 3kA - characteristics C



2P
1 mod.



In (A)

2
4
6
10
16
20
25
32
40

C

Cat. No.

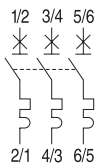
Ref. No.

Pack.

EPC 32 C02	692500	12
EPC 32 C04	692501	12
EPC 32 C06	692502	12
EPC 32 C10	692503	12
EPC 32 C16	692504	12
EPC 32 C20	692505	12
EPC 32 C25	692506	12
EPC 32 C32	692507	12
EPC 32 C40	692508	12



3P⁽¹⁾
2 mod.

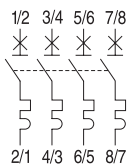


2
4
6
10
16
20
25
32
40

EPC 33 C02	692509 ⁽¹⁾	6
EPC 33 C04	692510 ⁽¹⁾	6
EPC 33 C06	692511 ⁽¹⁾	6
EPC 33 C10	692512 ⁽¹⁾	6
EPC 33 C16	692513 ⁽¹⁾	6
EPC 33 C20	692514 ⁽¹⁾	6
EPC 33 C25	692515 ⁽¹⁾	6
EPC 33 C32	692516 ⁽¹⁾	6
EPC 33 C40	692517 ⁽¹⁾	6



4P
2 mod.



2
4
6
10
16
20
25
32
40

EPC 34 C02	692518	6
EPC 34 C04	692519	6
EPC 34 C06	692520	6
EPC 34 C10	692521	6
EPC 34 C16	692522	6
EPC 34 C20	692523	6
EPC 34 C25	692524	6
EPC 34 C32	692525	6
EPC 34 C40	692526	6

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



Compact MCB's

Series EPC 45

EN/IEC 60898-1

4500

3

EN/IEC 60947-2

6kA

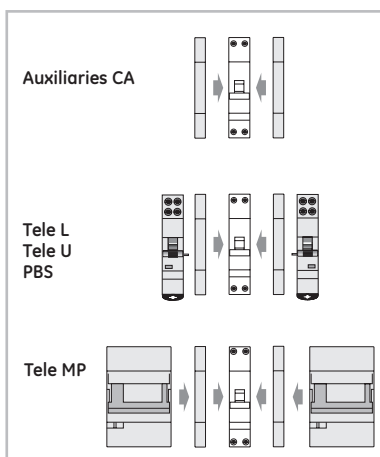
Applications



Approvals / Marking



Add-on devices



When coupling an add-on device (Tele L, Tele U, PBS, 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	(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 $\overline{=}$)	I_{cu} (kA)
2P	96	4,5

(1) 8000 for 32/40A

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

Auxiliary contact CA ● page 20
Other auxiliaries ● General cat.

Busbars ● page 22
Dimensions ● page 29

Series EPC 45 - 4.5kA - characteristics B-C

	In (A)	B		C		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
 2P 1 mod. 1/2 3/4 2/1 4/3	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
 3P⁽¹⁾ 2 mod. 1/2 3/4 5/6 2/1 4/3 6/5	2	EPC 453 B02	692617	EPC 453 C02	692536 ⁽¹⁾	6
	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
 4P 2 mod. 1/2 3/4 5/6 7/8 2/1 4/3 6/5 8/7	2	EPC 454 B02	692626	EPC 454 C02	692545	6
	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



Compact MCB's

Series EPC 60

EN/IEC 60898-1	6000
	3
EN/IEC 60947-2	7.5kA

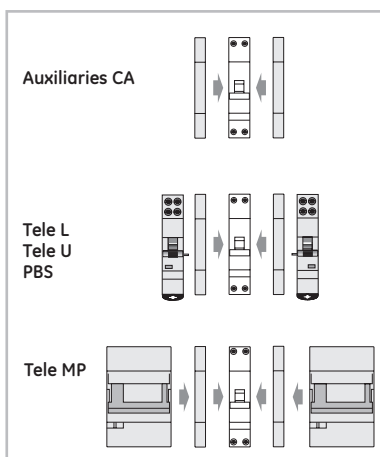
Applications



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.

Auxiliary contact CA ● page 20
Other auxiliaries ● General cat.

Busbars ● page 22
Dimensions ● page 29

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	6
3P	415	6
4P	415	6

Acc. to EN/IEC 60947-2

Poles	V	I_{cu} (kA)
2P	415	7.5
3P	415	7.5
4P	415	7.5

DC ccc. to EN/IEC 60947-2

Poles	U_n (V $\overline{=}$)	I_{cu} (kA)
2P	96	6

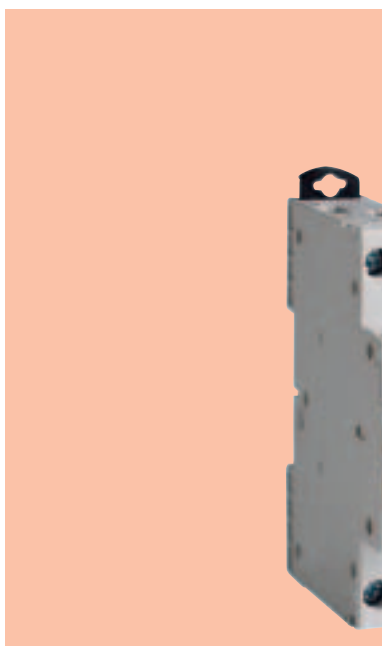
(1) 8000 for 32/40A

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

Series EPC 60 - 6kA - characteristics B-C

	In (A)	B		C		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
 2P 1 mod. 1/2 3/4 2/1 4/3	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
 3P⁽¹⁾ 2 mod. 1/2 3/4 5/6 2/1 4/3 6/5	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
 4P 2 mod. 1/2 3/4 5/6 7/8 2/1 4/3 6/5 8/7	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



Compact MCB's

Series DCC 41N

EN/IEC 60898-1

4500

3

Applications



Approval / Marking



Performances

Thermal setting I_n	(A)	2-40
Rated voltage AC U_n	(V)	230
Minimum operating voltage U_{Bmin}	(V)	12
Tripping characteristic		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
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	230	4.5

Series DCC 41N - 4.5kA - characteristic C

	I_n (A)	C		Pack.
		Cat. No.	Ref. No.	
1P + N 1 mod. 1/2 N 2/1 N	6	DCC 41 N C06	693054	12
	10	DCC 41 N C10	693055	12
	16	DCC 41 N C16	693056	12
	20	DCC 41 N C20	693057	12
	25	DCC 41 N C25	693058	12
	32	DCC 41 N C32	693059	12
	40	DCC 41 N C40	693060	12

Busbars ● page 22
Dimensions ● page 29

(1) 8000 for 32 and 40A

Compact MCB's

Series DCC 61N

EN/IEC 60898-1

6000

3



Applications



Approval / Marking



Performances

Thermal setting I_n	(A) 2-40
Rated voltage AC U_n	(V) 230
Minimum operating voltage U_{Bmin}	(V) 12
Tripping characteristic	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
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	230	6

Series DCC 61N - 6kA - characteristic C

	I_n (A)	C		Pack.
		Cat. No.	Ref. No.	
1P + N 1 mod.	2	DCC 61 N C02	693061	12
	4	DCC 61 N C04	693062	12
1/2 N 2/1 N	6	DCC 61 N C06	693063	12
	10	DCC 61 N C10	693064	12
	16	DCC 61 N C16	693065	12
	20	DCC 61 N C20	693066	12
	25	DCC 61 N C25	693067	12
	32	DCC 61 N C32	693068	12
	40	DCC 61 N C40	693069	12

Busbars ● page 22
Dimensions ● page 29

(1) 8000 for 32 and 40A





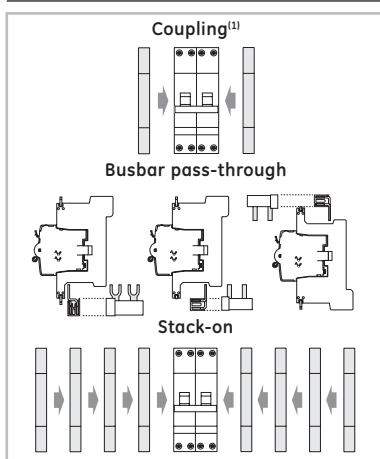
Applications



Approvals / Marking



Add-on devices



(1) 3P Unibis™ MCB'S accept CA only on the left side

Auxiliary

Series CA - Unibis™ Interface EN/IEC 62019

- Common for all modular protection devices: MCB's and RCBO's up to 63 A, RCCB's up to 100A and mains disconnect switches type ASTER (ASTM).
- Can be coupled on both sides of MCB's⁽¹⁾ and modular switches type ASTM.
- Version with golden contacts, available for low current as well as low voltage applications.
- Stack-on left or right up to 4 CA units.
- Permits the pass-through of busbars, pin & fork, top and bottom, just changing the position of the base of the auxiliaries.

Performances

Change-over contacts	1
Rated current In	(A) 5
Rated voltage AC Un	(V) 240
Electrical endurance	10000
Terminal capacity flexible/rigid cable	(mm²) 2.5
Weight	(g) 70

Application

The auxiliary contact Unibis™ has a double function:

1. The standard function as auxiliary monitoring contact for which it has been developed.
2. The interface function, which allows the use of all auxiliaries in combination with the Unibis™ MCB range.

Example: to couple the undervoltage release Tele U to a Unibis™ MCB, the CA 672972 has to be added in between the MCB and the Tele U as interface.

The auxiliary contacts are units to be added on to protection devices. They allow information to be monitored from a distance about the protection devices.

Auxiliary contact CA H (function H)

Provides the status of the protection device, OPEN/CLOSED.

Signal or auxiliary contact CA S/H, CA S/H G (function S/H)

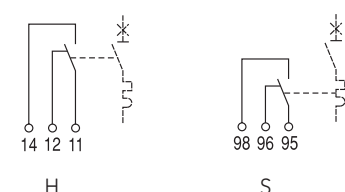
This auxiliary can act as an auxiliary contact (function H) or as a signal contact (function S).

The user can change the function at the moment of installation.

Used as signal contact (function S) it provides the information about the automatic tripping of the protection devices: overload or short-circuit for MCB's, earth leakage tripping for RCD's.

- The device has a test button on the front to simulate the function (acting as a function H or S)
- Reset button for the contacts (function S)
- Tripping signal on the front (function S)

Series CA - Unibis™ Interface



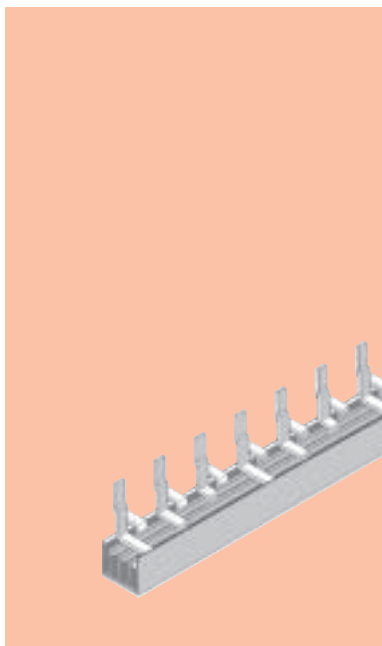
1/2 mod.

Function	Cat. No	Ref. No.	Pack.	
H	CA UN H	672972	1/40	
S/H	CA UN S/H	672973	1/40	
S/H	CA UN S/H G	672974	1/40	golden contacts

Notes

Grid of dots for notes.





VBS Busbar system

Rails

Particularity

The particular angled shaped pin busbar allows connection of a wire up to 10mm² (Ith max: 63A), without any additional adapter.

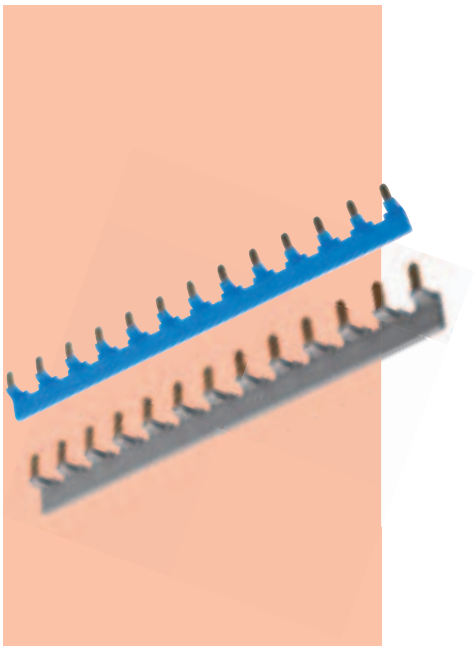
Technical data

Rail	Copper (oxygen free)
Insulation strip	Plastic
	Self extinguishing V-0
	Heat resistant >96 °C
Dielectric strength	36kV/mm acc. to DIN 53481/1,2
Creepage resistance / tracking index	Acc. to IEC 60439
Insulation group	400V, Group C, acc. to BS/EN 60439-1

Insulated pin type busbar - angled shape

				Ref. No.	Pack.
	Supply: 2P or 1P+N Distribution: 2P MCB's	10 mm ²	18 x 2P	624796	1
		10 mm ²	55 x 2P - Length 1m	624893	1
	Supply: 3P Distribution: 2P MCB's	10 mm ²	12 x 2P	624797	1
		10 mm ²	55 x 2P - Length 1m	624798	1
	Supply: 3P Distribution: 3P MCB's	10 mm ²	55 x 3P - Length 1m	624799	1
	Supply: 3P+N Distribution: 2P MCB's	10 mm ²	55 x 2P - Length 1m	624892	1
	Supply: 3P+N Distribution: 4P MCB's	10 mm ²	55 x 4P - Length 1m	624800	1
	Connector clamp	24 mm ²	Lateral connection, with pin, non insulated	624795	1
	End caps	10 mm ²	2P	546181	1
		10 mm ²	3P	546184	1
		10 mm ²	4P	629867	1

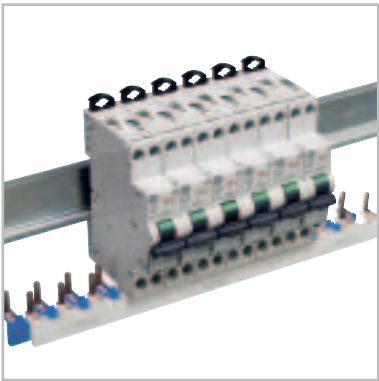
Busbar system



Rails

Particularity

The double angled shape of the busbar is designed to avoid an additional terminal to realise a derivation with wiring till 10mm² and lth = max. 63A.



Technical data

Rail	Copper (oxygen free)
Insulation strip	Plastic
	Self extinguishing V-0
	Heat resistant >96 °C
Dielectric strength	36kV/mm
	to DIN 53481/1.2
Creepage resistance / tracking index	to IEC 60439
Insulation group	415V, Group C
	to BS/EN 60439-1

Insulated pin type busbar - double angled shape



Supply: 1P
Distribution: 1P

		Ref. No.	Pack.
10 mm²	13x1 pole phase - grey - double angled	646091	1/20
10 mm²	13x1 pole neutral - blue - double angled	646092	1/20

Technical data of MCB's

Series			EPC 31N	EPC 451N	EPC 61N
Standards			EN 60898-1	EN 60898-1	EN 60898-1
Tripping characteristics			B,C	B,C	B,C
Nominal current (In)			2-40	2-40	2-40
Calibration temperature (°C)			30	30	30
Number of poles (# mod)			1+N (1 mod)	1+N (1 mod)	1+N (1 mod)
Neutral pole protected			-	-	-
Nominal voltage Un AC	1P+N	(V)	240	240	240
	1P+1P	(V)	-	-	-
	2P	(V)	-	-	-
	3P	(V)	-	-	-
	4P	(V)	-	-	-
Nominal voltage Un DC			-	-	-
Frequency	2P	(V=)	-	-	-
		(Hz)	50/60	50/60	50/60
			in DC	Thresh. magn. + 40%	Thresh. magn. + 40%
			for 400 Hz	Thresh. magn. + 50%	Thresh. magn. + 50%
Maximum service voltage Ub max			250	250	250
Minimum service voltage Ub min			12	12	12
Selectivity class (EN 60898-1)			3	3	3
Rated insulation voltage	Pollution degree 2	(V)	500	500	500
	Pollution degree 3	(V)	400	400	400
Impulse withstand test voltage			6	6	6
Insulation resistance (MΩ)			1000	1000	1000
Dielectric rigidity (kV)			2.5	2.5	2.5
Vibration resistance (in x,y,z direction) (IEC 77/16.3)			3	3	3
Endurance	Electrical at Un,In		10000 ⁽¹⁾	10000 ⁽¹⁾	10000 ⁽¹⁾
	Mechanical		20000	20000	20000
Utilisation category (EN 60947-2)			A	A	A
Mounting position: vertical/horizontal			any	any	any
Incoming top or bottom			yes	yes	yes
Protection degree (outside/inside enclosure with door)			IP20/IP40	IP20/IP40	IP20/IP40
Selfextinguish degree (acc. UL 94)			V2	V2	V2
Tropicalisation (acc. EN 60068-2/DIN 40046)			+55°C/95%RH	+55°C/95%RH	+55°C/95%RH
Operating temperature (°C)			-25/+55	-25/+55	-25/+55
Storage temperature (°C)			-55/+55	-55/+55	-55/+55
Terminal capacity	Rigid cable min/max (top)	(mm ²)	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾
	Flexible cable min/max (top)	(mm ²)	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾
	Rigid cable min/max (bottom)	(mm ²)	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾
	Flexible cable min/max (bottom)	(mm ²)	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾
	Torque	(Nm)	3	3	3
Add-on devices	Auxiliary contacts		yes	yes	yes
	Tele U		yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾
	Tele L		yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾
	Tele MP		yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾
	PBS		yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾
Busbar systems	Pin (top/bottom)		yes/yes	yes/yes	yes/yes
	Fork (top/bottom)		no/no	no/no	no/no
Accessories			yes	yes	yes
Width per mod. (mm)			18	18	18
Weight per mod. (g)			125	125	125
Package			12	12	12
Approvals			VDE, KEMA	VDE, KEMA, IMQ	VDE, KEMA, IMQ
CE- marking			yes	yes	yes
Page			6	7	8

Short-circuit capacity of MCB's

Series			EPC 31N	EPC 451N	EPC 61N
Short-circuit capacity AC			(kA)	(kA)	(kA)
EN/IEC 60898-1	1P+N	240 V	3	4.5	6
	1P+1P	240 V	-	-	-
	2P	415 V	-	-	-
	3P	415 V	-	-	-
	4P	415 V	-	-	-
EN 60947-2 Ics (service)	1P+N	230 V	-	6	7.5
	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 101N	EPC 611	EPC 30	EPC 45	EPC 60	DCC 41N	DCC 61N
EN 60898-1	EN 60898-1	EN 60898-1	EN 60898-1	EN 60898-1	EN 60898-1	EN 60898-1
B,C	B,C	B,C	B,C	B,C	C	C
2-40	2-40	2-40	2-40	2-40	2-40	2-40
30	30	30	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)	2 (1 mod), 3&4 (2 mod)	1+N (1 mod)	1+N (1 mod)
-	-	-	-	-	-	-
240	-	-	-	-	230	230
-	240	-	-	-	-	-
-	-	415	415	415	-	-
-	-	415	415	415	-	-
-	-	415	415	415	-	-
-	-	96	96	96	-	-
50/60	50/60	50/60	50/60	50/60	50/60	50/60
Thresh. magn. + 40%	Thresh. magn. + 40%	Thresh. magn. + 40%	Thresh. magn. + 40%	Thresh. magn. + 40%	Thresh. magn. + 40%	Thresh. magn. + 40%
Thresh. magn. + 50%	Thresh. magn. + 50%	Thresh. magn. + 50%	Thresh. magn. + 50%	Thresh. magn. + 50%	Thresh. magn. + 50%	Thresh. magn. + 50%
250	250/440	250/440	250/440	250/440	250	250
12	12	12	12	12	12	12
3	3	3	3	3	3	3
500	500	500	500	500	500	500
400	400	400	400	400	400	400
6	6	6	6	6	6	6
1000 ⁽¹⁾	1000	10000	10000	10000	1000	1000
2.5	2.5	2.5	2.5	2.5	2.5	2.5
3	3	3	3	3	3	3
10000 ⁽¹⁾	10000 ⁽¹⁾	10000 ⁽¹⁾	10000 ⁽¹⁾	10000 ⁽¹⁾	10000 ⁽¹⁾	10000 ⁽¹⁾
20000	20000	20000	20000	20000	20000	20000
A	A	A	A	A	A	A
any	any	any	any	any	any	any
yes	yes	yes	yes	yes	yes	yes
IP20/IP40	IP20/IP40	IP20/IP40	IP20/IP40	IP20/IP40	IP20/IP40	IP20/IP40
V2	V2	V2	V2	V2	V2	V2
+55°C/95%RH	+55°C/95%RH	+55°C/95%RH	+55°C/95%RH	+55°C/95%RH	+55°C/95%RH	+55°C/95%RH
-25/+55	-25/+55	-25/+55	-25/+55	-25/+55	-25/+55	-25/+55
-55/+55	-55/+55	-55/+55	-55/+55	-55/+55	-55/+55	-55/+55
1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16	1/16
1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10	1/10
1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16 ⁽²⁾	1/16	1/16
1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10 ⁽²⁾	1/10	1/10
3	3	3	3	3	3	3
yes	yes	yes	yes	yes	no	no
yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	no	no
yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	no	no
yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	no	no
yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	yes ⁽³⁾	no	no
yes/yes	yes/yes	yes/yes	yes/yes	yes/yes	yes/yes	yes/yes
no/no	no/no	no/no	no/no	no/no	no/no	no/no
yes	yes	yes	yes	yes	yes	yes
18	18	18/36	18/36	18/36	18	18
125	160	160/320	160/320	160/320	125	125
12	12/6	12/6	12/6	12/6	12	12
VDE, KEMA, IMQ	VDE	NF, CEBEC, KEMA	VDE, IMQ, NF, KEMA	VDE, IMQ, NF, CEBEC, KEMA	IMQ	KEMA
yes	yes	yes	yes	yes	yes	yes
9	10	12	14	16	18	19

EPC 101N	EPC 611	EPC 30	EPC 45	EPC 60	DCC 41N	DCC 61N
(kA)	(kA)	(kA)	(kA)	(kA)	(kA)	(kA)
10 ⁽⁴⁾	-	-	-	-	4.5	6
-	6	-	-	-	-	-
-	-	3	4.5	6	-	-
-	-	3	4.5	6	-	-
-	-	3	4.5	6	-	-
10	-	-	-	-	-	-
-	6	-	-	-	-	-
-	-	-	6	7.5	-	-
-	-	-	6	7.5	-	-
-	-	-	6	7.5	-	-
		3	4.5	6		

(1) 8000 for 32 and 40 A

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

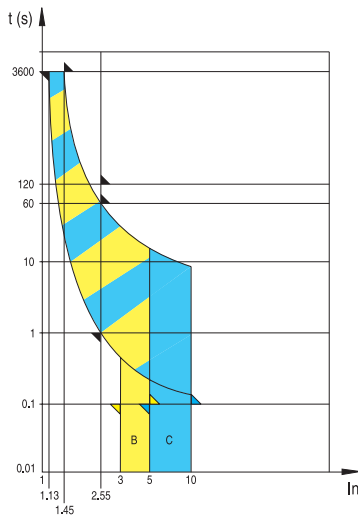
(3) Requires CA auxiliary contact as interface

(4) I_{cn1}= 6kA

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.

Tripping characteristic curves (EN/IEC 60898-1)



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.

Icn (A)	Test 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.

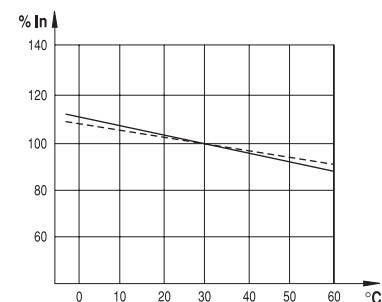
Calculation

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.

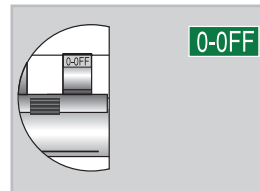
Power losses per pole

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⁽¹⁾

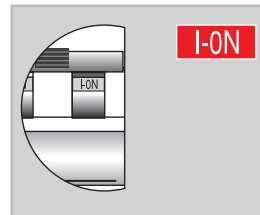
The toggle permits to switch the MCB ON or OFF

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.

(1) Not applicable for Series DCC

Back-up protection (association)

Downstream: MCB's ElfaPlus - Upstream: MCB's ElfaPlus

ElfaPlus		U 230V					
Downstream MCB		Upstream MCB (kA)					
Types	In (A)	EP 60	EP 100	EP 250	EP 250	EP 250	Hti
		0.5-63	0.5-63	< 32	32-40	50-63	80-125
EPC 31N - EPC30	2-40	7.5	10	12.5	12.5	10	-
EPC 451N - EPC45	2-40	10	10	15	15	10	-
EPC 61N - EPC60	2-10	15	20	20	20	15	-
	16-20	15	20	22	22	20	-
	25-40	15	15	20	20	15	-
EPC 101N	2-10	15	20	20	20	15	-
	16-20	15	20	22	22	20	-
	25-40	15	15	22	22	20	-
DP60	4-10	15	15	15	15	15	-
DP60	16-20	15	15	15	15	15	-
DP60	25-40	15	15	15	15	15	-
DP100	4-10	15	15	15	15	15	-
DP100	16-20	15	20	20	20	20	-
DP100	25-40	15	20	22	22	22	-
EP30	6-40	15	20	22	22	22	16
EP45	6-40	15	20	22	22	22	16
EP60	0.5-63	-	20	22	22	22	-
EP100	0.5-63	-	-	50	35	30	-

Record Plus™ MCCB's at 220/240V AC

Upstream Downstream		MCCB's Record Plus™																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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		Icu	In (kA)	25	40	50	85	100	200	85	100	200	65	85	100	200	85	100	200	85	100	200	85	100	200	85	100	200	85	100	200	80	100	170	80	100	170	80	100	170	80	100	170	80	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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EPC 30	3	15	15	15	15	15	15	12	12	12	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Record Plus™ MCCB's at 400/415V AC

Upstream Downstream	MCCB's Record Plus™																											
	Icu	FD63/160C	FD63/160E	FD63/160S	FD63/160N	FD63/160H	FD63/160L	FE160N	FE160H	FE160L	FE250V	FE250N	FE250H	FE250L	FG400N	FG400H	FG400L	FG630N	FG630H	FG630L	FK800N	FK800H	FK800L	FK1250N	FK1250H	FK1250L	FK1600N	FK1600H
	In (kA)	18	25	36	50	80	150	50	80	150	36	50	80	150	50	80	150	50	80	150	50	80	100	50	80	100	50	80
Icu of the combination (kA)																												
ElfaPlus																												
EPC30	3	15	18	22	25	30	36	25	30	36	18	22	25	30	12	12	12	10	10	10	-	-	-	-	-	-	-	-
EPC 452, 453 & 454	6	15	18	22	25	30	36	25	30	36	18	22	25	30	12	12	12	10	10	10	-	-	-	-	-	-	-	-
EPC60	7.5	16	20	23	25	34	40	28	34	40	20	25	30	32	15	15	15	10	10	10	-	-	-	-	-	-	-	-
EP60	10	18	22	25	30	36	42	30	36	42	22	30	36	36	16	16	16	12	12	12	-	-	-	-	-	-	-	-
EP100	15	18	25	30	36	42	50	36	42	50	25	30	36	36	22	22	22	16	16	16	-	-	-	-	-	-	-	-
EP250 ≤25A	25	-	-	36	42	50	65	42	50	65	-	36	42	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EP250, 32 & 40A	20	-	-	30	36	42	50	36	42	50	-	36	42	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EP250, 50 & 63A	15	18	25	30	36	42	50	36	42	50	25	30	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Series Hti	10	15	18	25	30	36	42	30	36	42	18	30	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Series S90	15	18	25	30	36	42	50	36	42	50	25	36	42	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Surion																												
GPS1B/MS ≤10A	100	-	-	-	-	150	-	-	150	-	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS1B/MS 12.5A	50	-	-	-	-	80	150	-	80	150	-	-	80	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS1B/MS ≥16A	25	-	-	-	42	50	65	42	50	65	-	42	50	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS1B/MH ≤12.5A	100	-	-	-	-	150	-	-	150	-	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS1B/MH >12.5A	50	-	-	-	-	80	150	-	80	150	-	-	80	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS2B/MS 10A	100	-	-	-	-	150	-	-	150	-	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS2B/MS >10A	25	-	-	-	42	50	65	42	50	65	-	42	50	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS2B/MH 10A	100	-	-	-	-	150	-	-	150	-	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS2B/MH >10A	50	-	-	-	-	80	150	-	80	150	-	-	80	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Record Plus™																												
FD63/160C	18	-	22	25	30	36	42	30	36	42	22	30	36	42	30	36	42	30	36	42	-	-	-	-	-	-	-	-
FD63/160E	25	-	-	30	36	42	50	36	42	50	-	36	42	50	36	42	50	36	42	50	-	-	-	-	-	-	-	-
FD63/160S	36	-	-	-	42	50	65	42	50	65	-	42	50	65	42	50	65	42	50	65	-	-	-	-	-	-	-	-
FD63/160N	50	-	-	-	-	80	150	-	80	150	-	-	80	150	-	80	150	-	80	150	-	80	100	-	80	100	-	80
FD63/160H	80	-	-	-	-	150	-	-	150	-	-	-	150	-	-	150	-	-	150	-	-	100	-	-	100	-	-	100
FE160N	50	-	-	-	-	-	-	-	80	150	-	-	80	150	-	80	150	-	80	150	-	80	100	-	80	100	-	80
FE160H	80	-	-	-	-	-	-	-	150	-	-	-	150	-	-	150	-	-	150	-	-	100	-	-	100	-	-	100
FE250N	50	-	-	-	-	-	-	-	-	-	-	-	80	150	-	80	150	-	80	150	-	80	100	-	80	100	-	80
FE250H	80	-	-	-	-	-	-	-	-	-	-	-	150	-	-	150	-	-	150	-	-	100	-	-	100	-	-	100
FG400N	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	150	-	80	150	-	80	100	-	80	100	-	80
FG400H	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	-	-	150	-	-	100	-	-	100	-	-	100
FG630N	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	150	-	80	100	-	80	100	-	80
FG630H	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	-	-	100	-	-	100	-	-
FK800N	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	100	-	80	100	-	80
FK800H	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	100	-	-	100
FK1250N	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	100	-	80	100	-	80
FK1250H	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	100	-	-	100

Selectivity

Record Plus™ MCCB's

	Upstream	MCCB's Record Plus™																			
		FDC & FDE 63/160 LTM						FDS 63/160 LTMD						FDN, H & L 63/160 LTMD							
Downstream	In (A)	40	50	63	80	100	125	160	40	50	63	80	100	125	160	40	50	63	80	100	125
		Selectivity limit (kA) ¹⁾																			
ElfaPlus EPC30 EP30 B/C curve	≤16	0.6	2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	20	0.6	2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	25	-	0.8	1.2	T	T	T	T	1.6	T	T	T	T	T	T	1.6	T	T	T	T	
	32	-	-	1.2	T	T	T	T	-	-	T	T	T	T	T	-	-	T	T	T	
ElfaPlus EPC45 B/C curve	40	-	-	-	T	4	T	-	-	-	T	T	T	T	T	-	-	-	T	T	
	≤16	0.6	2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	20	0.6	2.5	3	T	T	T	T	3.5	T	T	T	T	T	T	3.5	T	T	T	T	
	25	-	0.8	1.2	T	T	T	T	1.6	3.5	T	T	T	T	T	1.6	3.5	T	T	T	
ElfaPlus EPC60 & DME60 B/C curve	32	-	-	1.2	3	T	T	T	-	-	T	T	T	T	T	-	-	-	T	T	
	40	-	-	-	3	4	T	-	-	-	T	T	T	T	T	-	-	-	T	T	
	≤16	0.6	2.5	6	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	20	0.6	2.5	3	6	T	T	T	3.5	T	T	T	T	T	T	3.5	T	T	T	T	
ElfaPlus DPA160 DME100 B/C curve	25	-	0.8	1.2	6	6	T	1.6	3.5	T	T	T	T	T	1.6	3.5	T	T	T	T	
	32	-	-	1.2	3	6	8	-	-	10	T	T	T	T	T	-	-	10	T	T	
	40	-	-	-	3	4	6	-	-	-	T	T	T	T	T	-	-	-	T	T	
	50	-	-	-	-	1.5	6	-	-	-	3.5	T	T	T	T	-	-	-	3.5	T	
ElfaPlus EP60 EPC 101N DPA100 B/C curve	63	-	-	-	1.2	1.5	2	-	-	-	-	3.5	10	T	T	-	-	-	3.5	10	
	≤16	0.6	2.5	6	6	10	T	10	10	T	T	T	T	T	10	10	T	T	T	T	
	20	0.6	2.5	3	6	8	T	3.5	10	T	T	T	T	T	3.5	10	T	T	T	T	
	25	-	0.8	1.2	6	6	T	1.6	3.5	T	T	T	T	T	1.6	3.5	T	T	T	T	
ElfaPlus EP100 EP250 B/C curve	32	-	-	1.2	3	6	8	-	-	10	10	T	T	T	T	-	-	10	10	T	
	40	-	-	-	3	4	6	-	-	-	10	T	T	T	T	-	-	-	10	10	
	50	-	-	-	1.2	1.5	6	-	-	-	3.5	10	T	T	T	-	-	-	3.5	10	
	63	-	-	-	-	1.5	2	-	-	-	-	8	T	T	T	-	-	-	-	8	
Hti C curve	80	-	-	-	-	-	1.9	-	-	-	-	-	-	2.5	-	-	-	-	-	2.5	
	100	-	-	-	-	-	1.9	-	-	-	-	-	-	2.5	-	-	-	-	-	2.5	
	≤25	-	0.8	0.9	1.2	1.5	1.9	-	1	1.2	15	15	15	15	-	1	1.2	15	15	15	
	32	-	-	0.9	1.2	1.5	1.9	-	-	1.2	15	15	15	15	-	-	1.2	15	15	15	
S90 C curve	40	-	-	-	1.2	1.5	1.9	-	-	-	15	15	15	15	-	-	-	15	15	15	
	50	-	-	-	1.2	1.5	1.9	-	-	-	15	15	15	15	-	-	-	15	15	15	
	63	-	-	-	-	1.5	1.9	-	-	-	-	15	15	15	-	-	-	-	15	15	
	80	-	-	-	-	-	1.9	-	-	-	-	-	-	15	-	-	-	-	-	15	
Surion GPS1BS & GPS1MS GPS2BS & GPS2MS	100	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	15	
	≤20	0.6	2.5	6	6	10	T	10	10	T	T	T	T	T	10	10	T	T	T	T	
	25	-	1	1.2	6	6	T	-	3.5	15	15	T	T	T	-	3.5	15	15	T	T	
	32	-	-	1.2	3	6	10	-	-	6	6	T	T	T	-	-	6	6	T	T	
Surion GPS1BH & GPS1MH GPS2BH & GPS2MH	40	-	-	-	3	4	6	-	-	-	6	T	T	T	-	-	-	6	T	T	
	50	-	-	-	1.2	1.6	6	-	-	-	3.5	T	T	T	-	-	-	3.5	T	T	
	63	-	-	-	-	1.6	2	-	-	-	-	8	T	T	-	-	-	-	8	T	
	≤20	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
Record Plus™ FD63/160E LTM	25	-	2.5	15	15	T	T	-	3.5	T	T	T	T	T	-	3.5	T	T	T	T	
	32	-	-	6	6	8	T	-	-	T	T	T	T	T	-	-	T	T	T	T	
	40	-	-	-	6	8	T	-	-	T	T	T	T	T	-	-	T	T	T	T	
	50	-	-	-	-	6	T	-	-	-	3.5	T	T	T	-	-	-	3.5	T	T	
	63	-	-	-	-	-	T	-	-	-	-	8	T	T	-	-	-	-	8	T	
	≤25	0.4	0.5	0.6	0.8	1	1.3	0.6	0.8	0.9	1.2	1.5	3.5	0.6	0.8	0.9	1.2	1.5	3.5		
	32	-	0.5	0.6	0.8	1	1.3	-	0.8	0.9	1.2	1.5	3.5	-	0.8	0.9	1.2	1.5	3.5		
	40	-	-	-	0.8	1	1.3	-	-	-	1.2	1.5	3.5	-	-	-	1.2	1.5	3.5		
	50	-	-	-	0.8	1	1.3	-	-	-	1.2	1.5	3.5	-	-	-	1.2	1.5	3.5		
	63	-	-	-	-	1	1.3	-	-	-	-	1.5	3.5	-	-	-	-	1.5	3.5		
	80	-	-	-	-	-	1.3	-	-	-	-	-	3.5	-	-	-	-	-	3.5		

(1) T = Full selectivity until the Icu of the downstream device.

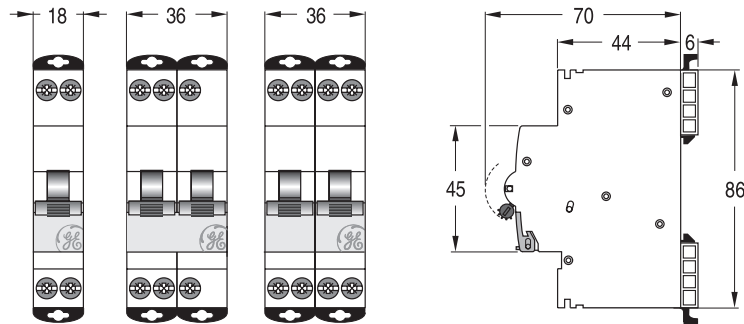
Remark: For MCCB's with D curve assume a C curve type with a one step higher rating.

Example: Selectivity FD160 80Amp LTM with downstream C curve 40A MCCB = 3kA, for D curve 40A, take the value mentioned for 50A C curve, here 1.2kA.

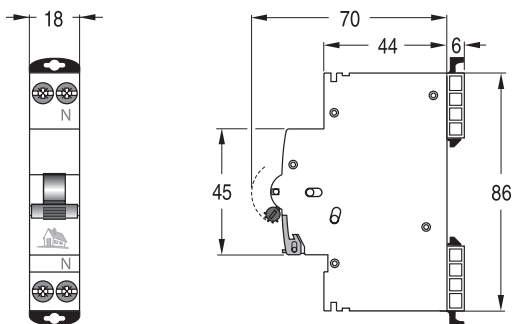


Dimensional drawings

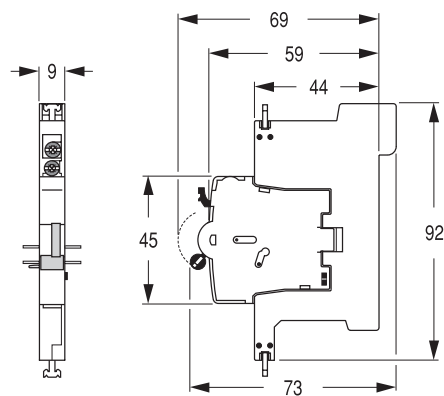
Miniature Circuit Breakers - Series EPC



Miniature Circuit Breakers - Series DCC

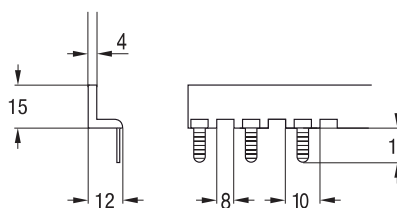


Auxiliary interface - Series CA



Insulated pin busbars

Double angled
10 mm²
grey and blue



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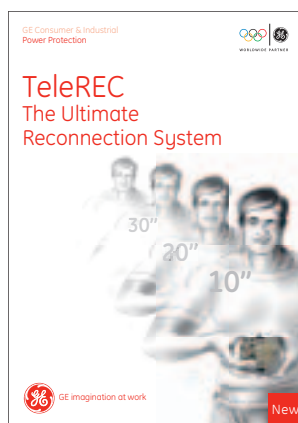


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