

Selection table of RCBO's

Page no.	Series	Sensitivity (mA)	Pole	Type	Tripping charact.	Nominal current (A)										Isolator appl.	Add-on devices	Rated voltage				
						4	6	10	13	16	20	25	32	40								
B.8	DM60	10	1+N	AC/A	B												x	x	240			
					C													x	x	240		
		30	1+N	AC/A	B													x	x	240		
					C													x	x	240		
		100	1+N	AC/A	B														x	x	240	
					C														x	x	240	
300	1+N	AC/A	B														x	x	240			
			C														x	x	240			
B.9	DMT60	30	1+N	AC	C												x	x	240			
B.10	DM100	10	1+N	AC/A	B													x	x	240		
					C														x	x	240	
		30	1+N	AC/A	B														x	x	240	
					C														x	x	240	
		100	1+N	AC/A	B															x	x	240
					C															x	x	240
300	1+N	AC/A	B															x	x	240		
			C															x	x	240		
B.11	DMT100	30	1+N	AC	C													x	x	240		
B.12	DMC/DICE	30	1+N	AC/A	B/C														x	x	240	
B.15	DME60	30	1+N	AC	C														x	x	240	
B.15	DME100	30	1+N	AC	C														x	x	240	

RCD's

A

B

C

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DME60	DME100	Diff-o-Click	FPAUL	DPA100	FPP 
EN/IEC 61009-1	EN/IEC 61009-1	EN/IEC 61009-1	UL1053 & EN/IEC 61008-1	UL1053 & EN/IEC 61009-1	EN 61008-1
C	C	B-C-D	-	B-C	-
AC	AC	AC-A-S	A	A	A, S
<40	<40	<40	< 40	< 40	<40
-	-	>150	-	-	>150
6...40	6,10,16,20,25,32,40	0,5,1,2,4,6,10,16,20,25,32,40,50,63	16,25,40,63	10,13,16,32,40	25, 40, 63 <sup>(3)</sup>
30, 100	10, 30, 300	30,100,300,500,1000	10, 30, 100, 300, 500	10, 30	30, 100, 300
30	30	30	30	30	30
1	1	1	1	1	1
240 (1P+N)	240 (1P+N)	240/415	240	277 & 240 (1P+N)	240
-	-	400	-	-	-
-	-	400	UL: 240; EN/IEC: 415	-	415
50/60	50/60	50/60	50/60	50/60	50/60
265	265	2P=265 / 4P=455	2P=265 / 4P=455	255	2P=265 / 4P=455
195	195	2P=205 / 4P=205	2P=117 / 4P=205	195	2P=110 / 4P=190
100	100	Voltage independent	Voltage independent	Voltage independent	Voltage independent
Bottom	Bottom	Top	Top/Bottom	Top/Bottom	Top/Bottom
3	3	3	-	3	-
10xIn	10xIn	-	500 (or 10xIn)	-	500 (or 10xIn)
6000	10000	see MCB	500 (or 10xIn)	6000	500 (or 10xIn)
-	-	-	10000 fuse 100A glgG	-	10000 fuse 100A
-	-	-	10000	-	10000
6000	10000	see MCB	-	5000/10000	-
-	-	35	35	35	-
yes	yes	no	yes	yes	yes
440	440	440	500	500	500
6 <sup>(1)</sup>	6 <sup>(1)</sup>	6	8	6	8
1000 <sup>(1)</sup>	1000 <sup>(1)</sup>	1000	1000	1000	1000
2500 <sup>(1)</sup>	2500 <sup>(1)</sup>	2500	2500	2500	2500
40g, 18 shocks 5 ms 2g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 2g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 5g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 1.5g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 1.5g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 1.5g, 30 min, 0...80Hz
10000	10000	10000	10000	10000	10000
20000	20000	20000	20000	20000	20000
IP20 / IP40	IP20 / IP40	IP20 / IP40	IP20 / IP40	IP20 / IP40	IP20 / IP40
V2	V2	V2	V2	V2	V2
+55/95%	+55/95%	+55/95%	+55/95%	+55/95%	+55/95%
3	3	3	3	3	3
-5...+60	-5...+60	AC (-5...+60); A(-25...+60)	AC (-5...+60); A (-25...+60)	-5...+60	-25...+60 <sup>(4)</sup>
-25...+70	-25...+70	-25...+70	-25...+70	-25...+70	-25...+70
1/25	1/25	1/25	1.5/50 [1.5/35]	1/25	see page B.20
1/16	1/16	1/16	1.5/35 [1.5/25]	1/16	-
1/35	1/35	1/35	1.5/50 [1.5/35]	1/35	-
1/25	1/25	1/25	1.5/35 [1.5/25]	1/25	-
3/4.5	3/4.5	-/4.5	5/5	3/4	-
-	-	yes (coupled to MCB)	yes	yes	yes
-	-	yes (coupled to MCB)	yes <sup>(2)</sup>	yes <sup>(2)</sup>	yes <sup>(5)</sup>
-	-	yes (coupled to MCB)	yes	yes	yes <sup>(5)</sup>
-	-	yes (coupled to MCB)	yes <sup>(2)</sup>	yes <sup>(2)</sup>	yes <sup>(5)</sup>
-	-	yes (coupled to MCB)	yes <sup>(2)</sup>	yes <sup>(2)</sup>	yes <sup>(5)</sup>
Bottom	Bottom	-	yes <sup>(2)</sup>	yes <sup>(2)</sup>	yes
Bottom	Bottom	-	yes <sup>(2)</sup>	yes <sup>(2)</sup>	yes
1+N	1+N	2-3-4	2-4	1+N	2/4
18	18	72/90/108/125/144	36/72	36	88x68x36/73.2
235	235	2P=250 / 3P=320 / 4P=340	2P=250 / 4P=368	250	2P=248 / 4P=364
1	1	1	2P=1/6 / 4P=1/3	1/6	2P=1/6 / 4P=1/3
KEMA	KEMA	KEMA	UL	UL & CEBEC	VDE-KEMA-CEBEC-IMO
yes	yes	yes	yes	yes	yes
B.15	B.15	B.16	B.18	B.19	B.20

(1) Making sure that N-L and both flying leads are disconnected.

(2) Not UL registered

(3) Rating current derating as usual in function of installation conditions.

(4) With plug-in busbar: -25/+50°C

(5) With plug-in busbar only at right extreme side of each row. No pin busbars let through allowed

RCD's

A

B

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## RCBO's - Residual Current Circuit Breakers With Overcurrent Protection

### Series DM60

<b>EN/IEC 61009-1</b>	<b>6000</b>
	<b>3</b>
<b>Type AC</b>	
<b>Type A</b>	

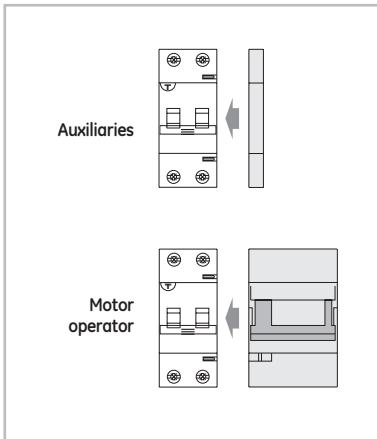
### Applications



### Approval



### Add-on devices



- Auxiliary contacts ● pg C.4
- Motor operator ● pg C.7
- Shunt trip ● pg C.8
- Undervoltage release ● pg C.8
- Panel board switch ● pg C.8

- Busbars ● pg E.2
- More technical data ● pg B.4
- Dimensions ● pg B.32

### Performance


<b>Thermal setting <math>I_n</math></b>	(A) 4 to 40
<b>Residual current <math>I_{\Delta n}</math></b>	(mA) 10, 30, 100, 300
<b>Tripping characteristic</b>	B-C
<b>Rated voltage AC <math>U_n</math></b>	(V) 230
<b>Minimum operating voltage <math>U_{Bmin}</math></b>	(V) 117
<b>Mechanical/electrical endurance</b>	20000/10000
<b>Tropicalisation acc. to EN/IEC 60068-2-28/2-30 and DIN 40046</b>	95%RH at 55°C
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> ) Top terminal: 16-25 Bottom terminal: 25-35
<b>Poles</b>	1+N
<b>Nuisance tripping resistance</b>	250A 8/20μs; 200A 0.5μs - 100kHz
<b>Ambient temperature</b>	(°C) Type AC: -5 upto 40 Type A: -25 upto 40
<b>Weight</b>	(g) 250

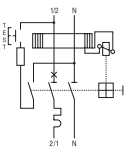
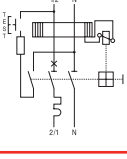
### Short-circuit capacity


Acc. to EN/IEC 61009-1 and EN/IEC 60898-1	
<b>Residual making and breaking capacity</b>	$I_{\Delta m} = 6000A$
<b>Short-circuit capacity</b>	$I_{cn} = 6000A$ at 240V
<b>Selectivity class</b>	3

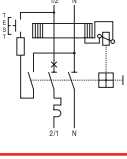
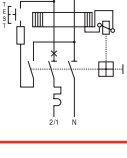
Acc. to EN/IEC 60947-2	
<b>Short-circuit capacity</b>	$I_{cu} = 10000A$ at 240V




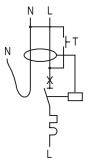
Series DM60 - Type AC 

	10 mA		30 mA		100 mA		300 mA		Pack.	
	In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.		Ref. No.
<b>Characteristic B 1P+N</b> 	6	DM60B06/010	609802	DM60B06/030	609807	DM60B06/100	609815	DM60B06/300	609823	6
	10	DM60B10/010	609803	DM60B10/030	609808	DM60B10/100	609816	DM60B10/300	609824	6
	13	DM60B13/010	609804	DM60B13/030	609809	DM60B13/100	609817	DM60B13/300	609825	6
	16	DM60B16/010	609805	DM60B16/030	609810	DM60B16/100	609818	DM60B16/300	609826	6
	20	DM60B20/010	609806	DM60B20/030	609811	DM60B20/100	609819	DM60B20/300	609827	6
	25	-	-	DM60B25/030	609812	DM60B25/100	609820	DM60B25/300	609828	6
	32	-	-	DM60B32/030	609813	DM60B32/100	609821	DM60B32/300	609829	6
	40	-	-	DM60B40/030	609814	DM60B40/100	609822	DM60B40/300	609830	6
	<b>Characteristic C 1P+N</b> 	4	DM60C04/010	609831	DM60C04/030	609837	DM60C04/100	609846	DM60C04/300	609855
6		DM60C06/010	609832	DM60C06/030	609838	DM60C06/100	609847	DM60C06/300	609856	6
10		DM60C10/010	609833	DM60C10/030	609839	DM60C10/100	609848	DM60C10/300	609857	6
13		DM60C13/010	609834	DM60C13/030	609840	DM60C13/100	609849	DM60C13/300	609858	6
16		DM60C16/010	609835	DM60C16/030	609841	DM60C16/100	609850	DM60C16/300	609859	6
20		DM60C20/010	609836	DM60C20/030	609842	DM60C20/100	609851	DM60C20/300	609860	6
25		-	-	DM60C25/030	609843	DM60C25/100	609852	DM60C25/300	609861	6
32		-	-	DM60C32/030	609844	DM60C32/100	609853	DM60C32/300	609862	6
40		-	-	DM60C40/030	609845	DM60C40/100	609854	DM60C40/300	609863	6

Series DM60 - Type A 

	10 mA		30 mA		100 mA		300 mA		Pack.	
	In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.		Ref. No.
<b>Characteristic B 1P+N</b> 	6	DMA60B06/010	609740	DMA60B06/030	609745	DMA60B06/100	609753	DMA60B06/300	609761	6
	10	DMA60B10/010	609741	DMA60B10/030	609746	DMA60B10/100	609754	DMA60B10/300	609762	6
	13	DMA60B13/010	609742	DMA60B13/030	609747	DMA60B13/100	609755	DMA60B13/300	609763	6
	16	DMA60B16/010	609743	DMA60B16/030	609748	DMA60B16/100	609756	DMA60B16/300	609764	6
	20	DMA60B20/010	609744	DMA60B20/030	609749	DMA60B20/100	609757	DMA60B20/300	609765	6
	25	-	-	DMA60B25/030	609750	DMA60B25/100	609758	DMA60B25/300	609766	6
	32	-	-	DMA60B32/030	609751	DMA60B32/100	609759	DMA60B32/300	609767	6
	40	-	-	DMA60B40/030	609752	DMA60B40/100	609760	DMA60B40/300	609768	6
	<b>Characteristic C 1P+N</b> 	4	DMA60C04/010	609769	DMA60C04/030	609775	DMA60C04/100	609784	DMA60C04/300	609793
6		DMA60C06/010	609770	DMA60C06/030	609776	DMA60C06/100	609785	DMA60C06/300	609794	6
10		DMA60C10/010	609771	DMA60C10/030	609777	DMA60C10/100	609786	DMA60C10/300	609795	6
13		DMA60C13/010	609772	DMA60C13/030	609778	DMA60C13/100	609787	DMA60C13/300	609796	6
16		DMA60C16/010	609773	DMA60C16/030	609779	DMA60C16/100	609788	DMA60C16/300	609797	6
20		DMA60C20/010	609774	DMA60C20/030	609780	DMA60C20/100	609789	DMA60C20/300	609798	6
25		-	-	DMA60C25/030	609781	DMA60C25/100	609790	DMA60C25/300	609799	6
32		-	-	DMA60C32/030	609782	DMA60C32/100	609791	DMA60C32/300	609800	6
40		-	-	DMA60C40/030	609783	DMA60C40/100	609792	DMA60C40/300	609801	6

Series DMT60 - Type AC 

	30 mA		Pack.	
	In (A)	Cat. No.		Ref. No.
<b>Characteristic C Unswitched neutral 1P+N</b> 	4	DMT60C04/030	609280	6
	6	DMT60C06/030	609281	6
	10	DMT60C10/030	609282	6
	13	DMT60C13/030	609283	6
	16	DMT60C16/030	609284	6
	20	DMT60C20/030	609285	6
	25	DMT60C25/030	609286	6
	32	DMT60C32/030	609287	6
	40	DMT60C40/030	609288	6

(1) Please consult us for blue neutral flying lead

A

B

C

D

E

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## RCBO's - Residual Current Circuit Breakers With Overcurrent Protection

### Series DM100

EN/IEC 61009-1	10000
	3
Type AC	
Type A	

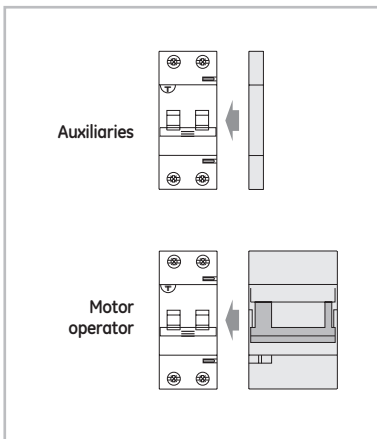
### Applications



### Approval / Marking



### Add-on devices



- Auxiliary contacts ● pg C.4
- Motor operator ● pg C.7
- Shunt trip ● pg C.8
- Undervoltage release ● pg C.8
- Panel board switch ● pg C.8

- Busbars ● pg E.2
- More technical data ● pg B.4
- Dimensions ● pg B.32

### Performance

Thermal setting $I_n$	(A) 4 to 40
Residual current $I_{\Delta n}$	(mA) 10, 30, 100, 300
Tripping characteristic	B-C
Rated voltage AC $U_n$	(V) 230
Minimum operating voltage $U_{Bmin}$	(V) 117
Mechanical/electrical endurance	20000/10000
Tropicalisation acc. to EN/IEC 60068-2-28/2-30 and DIN 40046	95%RH at 55°C
Terminal capacity flexible/rigid cable (mm <sup>2</sup> )	Top terminal: 16-25 Bottom terminal: 25-35
Poles	1+N
Nuisance tripping resistance	250A 8/20μs; 200A 0.5μs - 100kHz
Ambient temperature (°C)	Type AC: -5 upto 40 Type A: -25 upto 40
Weight (g)	250


### Short-circuit capacity

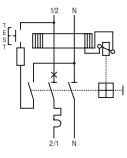
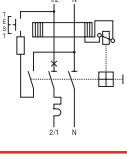
Acc. to EN/IEC 61009-1 and EN/IEC 60898-1	
Residual making and breaking capacity	$I_{\Delta m} = 6000A$
Short-circuit capacity	$I_{cn} = 10000A$ at 240V
Selectivity class	3

Acc. to EN/IEC 60947-2	
Short-circuit capacity	$I_{cu} = 15000A$ at 240V

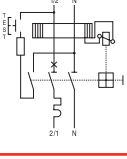
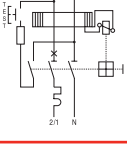




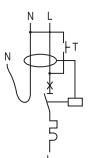
Series DM100 - Type AC 

	10 mA		30 mA		100 mA		300 mA		Pack.	
	In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.		Ref. No.
<b>Characteristic B 1P+N</b> 	6	DM100B06/010	609926	DM100B06/030	609931	DM100B06/100	609939	DM100B06/300	609947	6
	10	DM100B10/010	609927	DM100B10/030	609932	DM100B10/100	609940	DM100B10/300	609948	6
	13	DM100B13/010	609928	DM100B13/030	609933	DM100B13/100	609941	DM100B13/300	609949	6
	16	DM100B16/010	609929	DM100B16/030	609934	DM100B16/100	609942	DM100B16/300	609950	6
	20	DM100B20/010	609930	DM100B20/030	609935	DM100B20/100	609943	DM100B20/300	609951	6
	25	-	-	DM100B25/030	609936	DM100B25/100	609944	DM100B25/300	609952	6
	32	-	-	DM100B32/030	609937	DM100B32/100	609945	DM100B32/300	609953	6
	40	-	-	DM100B40/030	609938	DM100B40/100	609946	DM100B40/300	609954	6
<b>Characteristic C 1P+N</b> 	4	DM100C04/010	609955	DM100C04/030	609961	DM100C04/100	609970	DM100C04/300	609979	6
	6	DM100C06/010	609956	DM100C06/030	609962	DM100C06/100	609971	DM100C06/300	609980	6
	10	DM100C10/010	609957	DM100C10/030	609963	DM100C10/100	609972	DM100C10/300	609981	6
	13	DM100C13/010	609958	DM100C13/030	609964	DM100C13/100	609973	DM100C13/300	609982	6
	16	DM100C16/010	609959	DM100C16/030	609965	DM100C16/100	609974	DM100C16/300	609983	6
	20	DM100C20/010	609960	DM100C20/030	609966	DM100C20/100	609975	DM100C20/300	609984	6
	25	-	-	DM100C25/030	609967	DM100C25/100	609976	DM100C25/300	609985	6
	32	-	-	DM100C32/030	609968	DM100C32/100	609977	DM100C32/300	609986	6
40	-	-	DM100C40/030	609969	DM100C40/100	609978	DM100C40/300	609987	6	

Series DM100 - Type A 

	10 mA		30 mA		100 mA		300 mA		Pack.	
	In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.		Ref. No.
<b>Characteristic B 1P+N</b> 	6	DMA100B06/010	609864	DMA100B06/030	609869	DMA100B06/100	609877	DMA100B06/300	609885	6
	10	DMA100B10/010	609865	DMA100B10/030	609870	DMA100B10/100	609878	DMA100B10/300	609886	6
	13	DMA100B13/010	609866	DMA100B13/030	609871	DMA100B13/100	609879	DMA100B13/300	609887	6
	16	DMA100B16/010	609867	DMA100B16/030	609872	DMA100B16/100	609880	DMA100B16/300	609888	6
	20	DMA100B20/010	609868	DMA100B20/030	609873	DMA100B20/100	609881	DMA100B20/300	609889	6
	25	-	-	DMA100B25/030	609874	DMA100B25/100	609882	DMA100B25/300	609890	6
	32	-	-	DMA100B32/030	609875	DMA100B32/100	609883	DMA100B32/300	609891	6
	40	-	-	DMA100B40/030	609876	DMA100B40/100	609884	DMA100B40/300	609892	6
<b>Characteristic C 1P+N</b> 	4	DMA100C04/010	609893	DMA100C04/030	609899	DMA100C04/100	609908	DMA100C04/300	609917	6
	6	DMA100C06/010	609894	DMA100C06/030	609900	DMA100C06/100	609909	DMA100C06/300	609918	6
	10	DMA100C10/010	609895	DMA100C10/030	609901	DMA100C10/100	609910	DMA100C10/300	609919	6
	13	DMA100C13/010	609896	DMA100C13/030	609902	DMA100C13/100	609911	DMA100C13/300	609920	6
	16	DMA100C16/010	609897	DMA100C16/030	609903	DMA100C16/100	609912	DMA100C16/300	609921	6
	20	DMA100C20/010	609898	DMA100C20/030	609904	DMA100C20/100	609913	DMA100C20/300	609922	6
	25	-	-	DMA100C25/030	609905	DMA100C25/100	609914	DMA100C25/300	609923	6
	32	-	-	DMA100C32/030	609906	DMA100C32/100	609915	DMA100C32/300	609924	6
40	-	-	DMA100C40/030	609907	DMA100C40/100	609916	DMA100C40/300	609925	6	

Series DMT100 - Type AC 

(1)	In (A)	30 mA		Pack.
		Cat. No.	Ref. No.	
<b>Characteristic C Unswitched neutral 1P+N</b> 	4	DMT100C04/030	609289	6
	6	DMT100C06/030	609290	6
	10	DMT100C10/030	609291	6
	13	DMT100C13/030	609292	6
	16	DMT100C16/030	609293	6
	20	DMT100C20/030	609294	6
	25	DMT100C25/030	609295	6
	32	DMT100C32/030	609296	6
40	DMT100C40/030	609297	6	

(1) Please consult us for blue neutral flying lead

A

B

C

D

E

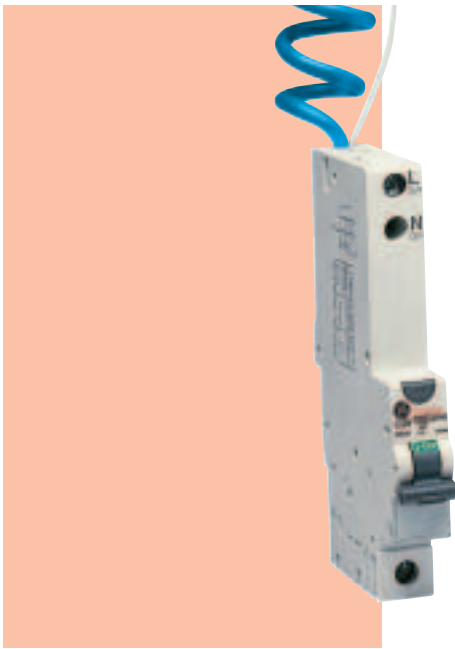
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G

X







## RCBO's - Residual Current Circuit Breakers with Overcurrent Protection

### Series DME

<b>EN/IEC 61009-1</b>	<b>6000</b>
	<b>3</b>
	<b>10000</b>
	<b>3</b>
<b>Type AC</b>	
<b>Type A</b>	

### Applications



For use in consumer units and distribution boards.

### Marking



### Performance

<b>Thermal setting <math>I_n</math></b>	(A) 6, 10, 16, 20, 25, 32, 40
<b>Residual current <math>I_{\Delta n}</math></b>	(mA) 10, 30, 100
<b>Tripping characteristic</b>	B, C
<b>Rated voltage AC <math>U_n</math></b>	(V) 265
<b>Minimum operating voltage <math>U_{Bmin}</math></b>	(V) 195
<b>Mechanical/electrical endurance</b>	20000/10000
<b>Tropicalisation acc. to EN/IEC 60068-2-28/2-30</b>	95%RH at 55°C
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> ) Bottom terminal: 16-25
<b>Poles</b>	1+N (1 module)
<b>Nuisance tripping resistance</b>	250A 8/20μs
<b>Ambient temperature</b>	(°C) -5 upto 55
<b>Weight</b>	(g) 235

The earth reference cable (FE white) ensures protection against earth leakage in case of loss of supply neutral.

### Short-circuit capacity

DME60 acc. to EN/IEC 61009-1


<b>Residual making en breaking capacity</b>	$I_{\Delta m} = 6000A$
<b>Short-circuit capacity</b>	$I_{cn} = 6000A$ at 240V
<b>Selectivity class</b>	3

DME100 acc. to EN/IEC 61009-1

<b>Residual making en breaking capacity</b>	$I_{\Delta m} = 10000A$
<b>Short-circuit capacity</b>	$I_{cn} = 10000A$ at 240V
<b>Selectivity class</b>	3

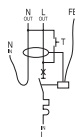
- Busbars ● pg E.2
- More technical data ● pg B.4
- Dimensions ● pg B.32




Series DME60 - Type AC 



Characteristic C  
Unswitched neutral  
1P+N

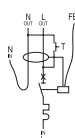


In (A)	30mA				
	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Pack.
6	DME60C06/030	605060			1
10	DME60C10/030	605061			1
16	DME60C16/030	605062			1
20	DME60C20/030	605063			1
25	DME60C25/030	605064			1
32	DME60C32/030	605065			1
40	DME60C40/030	605066			1

Series DME100 - Type AC 



Characteristic B  
Unswitched neutral  
1P+N



In (A)	10mA		30mA		Pack.
	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
6	DME100B06/010	605030	DME100B06/030	605037	1
10	DME100B10/010	605031	DME100B10/030	605038	1
16	DME100B16/010	605032	DME100B16/030	605039	1
20	DME100B20/010	605033	DME100B20/030	605040	1
25	DME100B25/010	605034	DME100B25/030	605041	1
32	DME100B32/010	605035	DME100B32/030	605042	1
40	DME100B40/010	605036	DME100B40/030	605043	1

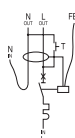
Characteristic C  
Unswitched neutral  
1P+N

6	DME100C06/010	605044	DME100C06/030	605051	1
10	DME100C10/010	605045	DME100C10/030	605052	1
16	DME100C16/010	605046	DME100C16/030	605053	1
20	DME100C20/010	605047	DME100C20/030	605054	1
25	DME100C25/010	605048	DME100C25/030	605055	1
32	DME100C32/010	605049	DME100C32/030	605056	1
40	DME100C40/010	605050	DME100C40/030	605057	1

Series DMEA100 - Type A 



Characteristic B  
Unswitched neutral  
1P+N



In (A)	10mA		30mA		Pack.
	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
6	DMEA100B06/010	605150	DMEA100B06/030	605157	1
10	DMEA100B10/010	605151	DMEA100B10/030	605158	1
16	DMEA100B16/010	605152	DMEA100B16/030	605159	1
20	DMEA100B20/010	605153	DMEA100B20/030	605160	1
25	DMEA100B25/010	605154	DMEA100B25/030	605161	1
32	DMEA100B32/010	605155	DMEA100B32/030	605162	1
40	DMEA100B40/010	605156	DMEA100B40/030	605163	1

Characteristic C  
Unswitched neutral  
1P+N

6	DMEA100C06/010	605164	DMEA100C06/030	605171	1
10	DMEA100C10/010	605165	DMEA100C10/030	605172	1
16	DMEA100C16/010	605166	DMEA100C16/030	605173	1
20	DMEA100C20/010	605167	DMEA100C20/030	605174	1
25	DMEA100C25/010	605168	DMEA100C25/030	605175	1
32	DMEA100C32/010	605169	DMEA100C32/030	605176	1
40	DMEA100C40/010	605170	DMEA100C40/030	605177	1

(1) Please consult us for black neutral flying lead

Series DME

A

B

C

D

E

F

G

X





## Add-on Residual Current Devices

### Diff-o-Click

**EN/IEC 61009-1**

**Type AC**



**Type A**



**Type S**



**Type Ai on demand**

**Type ASi on demand**

### Applications



### Approval / Marking



### Add-on devices

Integrated auxiliary contact on demand.

### Performance

<b>Thermal setting <math>I_n</math></b>	(A) 32, 63
<b>Residual current <math>I_{\Delta n}</math></b>	(mA) 30, 100, 300, 500, 1000
<b>Rated voltage AC <math>U_n</math></b>	(V) 2P: 240/415 3P: 415 4P: 415
<b>Minimum operating voltage <math>U_{Bmin}</math></b>	(V) 2P: 205 3P: 205 4P: 205
<b>Mechanical/electrical endurance</b>	20000/10000
<b>Tropicalisation acc.to EN/IEC 60068-2/3 and DIN 40046</b>	95%RH at 55°C
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> ) 2P 32 & 63A: 25-35 3P 32 & 63A: 25-35 4P 2 mod. 32A: 16 4P 32 & 63A 4 mod.: 25-35
<b>Poles</b>	2, 3, 4
<b>Nuisance tripping resistance</b>	Type A, AC: 250A 8/20μs; 200A 0.5μs - 100kHz Type S: 3000A 8/20μs
<b>Ambient temperature</b>	(°C) Type AC: -5 upto 55 Type A, S: -25 upto 55
<b>Weight</b>	(g) 2P: 250 3P: 320 4P: 340

### Short-circuit capacity

Depends on the associated MCB

		MCB			
		G30	G45	G60	G100
<b>Residual making and breaking capacity</b>	$I_{\Delta m}$	3000	4500	6000	7500
<b>Short-circuit capacity</b>	$I_{cn}$	3000	4500	6000	10000

More technical data ● pg B.4  
Dimensions ● pg B.31



**Add-on RCD - Series Diff-o-Click - Type AC** 

	In (A)	30 mA		100 mA		300 mA		500 mA		1000 mA		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
<b>2P - 2 mod.</b>	32	DOC 232/030	<b>607536</b>	DOC 232/100	<b>607537</b>	DOC 232/300	<b>607538</b>	DOC 232/500	<b>607539</b>	DOC 232/1000	<b>607540</b>	1
	63	DOC 263/030	<b>607542</b>	DOC 263/100	<b>607543</b>	DOC 263/300	<b>607544</b>	DOC 263/500	<b>607545</b>	DOC 263/1000	<b>607546</b>	1
<b>3P - 2 mod.</b> <b>4 mod.</b>	32	DOC 332/030	<b>607620</b>	DOC 332/100	<b>607621</b>	DOC 332/300	<b>607622</b>	DOC 332/500	<b>607623</b>	DOC 332/1000	<b>607624</b>	1
	63	DOC 363/030	<b>607626</b>	DOC 363/100	<b>607627</b>	DOC 363/300	<b>607628</b>	DOC 363/500	<b>607629</b>	DOC 363/1000	<b>607630</b>	1
<b>4P - 2 mod.</b> <b>4 mod.</b>	32	DOC 532/030	<b>607722</b>	DOC 532/100	<b>607723</b>	DOC 532/300	<b>607724</b>	DOC 532/500	<b>607725</b>	DOC 532/1000	<b>607726</b>	1
	63	DOC 463/030	<b>607734</b>	DOC 463/100	<b>607735</b>	DOC 463/300	<b>607736</b>	DOC 463/500	<b>607737</b>	DOC 463/1000	<b>607738</b>	1

Note: 3P+N (unswitched) flying lead on request.

**Add-on RCD - Series Diff-o-Click - Type A** 

	In (A)	30 mA		100 mA		300 mA		500 mA		1000 mA		Pack.	
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.		
<b>2P - 2 mod.</b>	32	DOCA 232/030	<b>607500</b>	DOCA 232/100	<b>607501</b>	DOCA 232/300	<b>607502</b>	DOCA 232/500	<b>607503</b>	DOCA 232/1000	<b>607504</b>	1	
	63	DOCA 263/030	<b>607506</b>	DOCA 263/100	<b>607507</b>	DOCA 263/300	<b>607508</b>	DOCA 263/500	<b>607509</b>	DOCA 263/1000	<b>607510</b>	1	
<b>3P - 2 mod.</b> <b>4 mod.</b>	32	DOCA 332/030	<b>607584</b>	DOCA 332/100	<b>607585</b>	DOCA 332/300	<b>607586</b>	DOCA 332/500	<b>607587</b>	DOCA 332/1000	<b>607588</b>	1	
	63	DOCA 363/030	<b>607590</b>	DOCA 363/100	<b>607591</b>	DOCA 363/300	<b>607592</b>	DOCA 363/500	<b>607593</b>	DOCA 363/1000	<b>607594</b>	1	
<b>4P - 2 mod.</b> <b>4 mod.</b>	32	DOCA 532/030	<b>607668</b>	DOCA 532/100	<b>607670</b>	DOCA 532/300	<b>607669</b>	DOCA 532/500	<b>607671</b>	DOCA 532/1000	<b>607672</b>	1	
	63	DOCA 463/030	<b>607674</b>	DOCA 463/100	<b>607675</b>	DOCA 463/300	<b>607676</b>	DOCA 463/500	<b>607677</b>	DOCA 463/1000	<b>607678</b>	1	
		63	DOCA 463/030	<b>607680</b>	DOCA 463/100	<b>607681</b>	DOCA 463/300	<b>607682</b>	DOCA 463/500	<b>607683</b>	DOCA 463/1000	<b>607684</b>	1

**Add-on RCD - Series Diff-o-Click - Type S**  

	In (A)	100 mA		300 mA		500 mA		1000 mA		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
<b>2P - 2 mod.</b>	32	DOCS 232/100	<b>607513</b>	DOCS 232/300	<b>607514</b>	DOCS 232/500	<b>607515</b>	DOCS 232/1000	<b>607516</b>	1
	63	DOCS 263/100	<b>607519</b>	DOCS 263/300	<b>607520</b>	DOCS 263/500	<b>607521</b>	DOCS 263/1000	<b>607522</b>	1
<b>3P - 2 mod.</b> <b>4 mod.</b>	32	DOCS 332/100	<b>607597</b>	DOCS 332/300	<b>607598</b>	DOCS 332/500	<b>607599</b>	DOCS 332/1000	<b>607600</b>	1
	63	DOCS 363/100	<b>607603</b>	DOCS 363/300	<b>607604</b>	DOCS 363/500	<b>607605</b>	DOCS 363/1000	<b>607606</b>	1
<b>4P - 2 mod.</b> <b>4 mod.</b>	32	DOCS 532/100	<b>607687</b>	DOCS 532/300	<b>607688</b>	DOCS 532/500	<b>607689</b>	DOCS 532/1000	<b>607690</b>	1
	32	DOCS 432/100	<b>607693</b>	DOCS 432/300	<b>607694</b>	DOCS 432/500	<b>607695</b>	DOCS 432/1000	<b>607696</b>	1
	63	DOCS 463/100	<b>607699</b>	DOCS 463/300	<b>607700</b>	DOCS 463/500	<b>607701</b>	DOCS 463/1000	<b>607702</b>	1

Diff-o-Click

A

B

C

D

E

F

G

X



## Residual Current Circuit Breakers with Overcurrent Protection



### DPA100 Recognized UL1053

<b>EN 61009-1</b>	<b>10000</b>
	<b>3</b>
<b>Type A</b>	

### Performances UL

Rated/Maximum voltage AC	(V) 240 or 277
Fault current withstand	5kA (277V), 10kA (240V)
UL file	E248309

### Performances EN/IEC

Thermal setting $I_n$	(A) 10 to 32
Residual current $I_{\Delta n}$	(mA) 10, 30, 100, 300
Tripping characteristic	B-C
Rated voltage AC $U_n$	(V) 240
Minimum operating voltage $U_{8min}$	(V) 195
Mechanical/electrical endurance	20000/10000
Tropicalisation acc. to EN/IEC 60068-2-28/2-30 and DIN 40046	95%RH at 55°C
Terminal capacity flexible/rigid cable (mm <sup>2</sup> )	Top terminal: 16-25 Bottom terminal: 25-35
Poles	1+N
Nuisance tripping resistance	250A 8/20µs; 200A 0.5µs - 100kHz
Ambient temperature	(°C) -25 upto 40
Weight	(g) 250

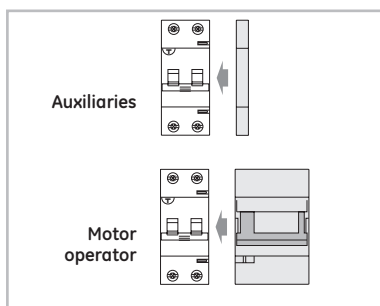
### Applications



### Approval



### Add-on devices

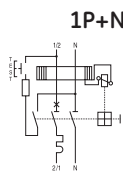


Dimensions ● pg B.32

### Short-circuit capacity

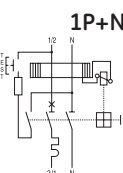
Acc. to EN/IEC 61009-1	
Residual making and breaking capacity	$I_{\Delta m} = 6000A$
Short-circuit capacity	$I_{cn} = 5000/10000A$ at 230V
Selectivity class	3
Acc. to EN/IEC 60947-2	
Short-circuit capacity	$I_{cu} = 15000A$ at 230V

### DPA100 - <sup>10000</sup>/<sub>3</sub> Type A - characteristic B



In (A)	10 mA		30 mA		Pack.
	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
10	DPA100B10/010	608706	DPA100B10/030	608712	6
13	DPA100B13/010	608707	DPA100B13/030	608713	6
16	DPA100B16/010	608708	DPA100B16/030	608714	6
20	DPA100B20/010	608709	DPA100B20/030	608715	6
25	-	-	DPA100B25/030	608716	6
32	-	-	DPA100B32/030	608717	6

### DPA100 - <sup>10000</sup>/<sub>3</sub> Type A - characteristic C



In (A)	10 mA		30 mA		Pack.
	Cat. No.	Ref. No.	Cat. No.	Ref. No.	
10	DPA100C10/010	608757	DPA100C10/030	608763	6
13	DPA100C13/010	608758	DPA100C13/030	608764	6
16	DPA100C16/010	608759	DPA100C16/030	608765	6
20	DPA100C20/010	608760	DPA100C20/030	608766	6
25	-	-	DPA100C25/030	608767	6
32	-	-	DPA100C32/030	608768	6



DPA100

A

B

C

D

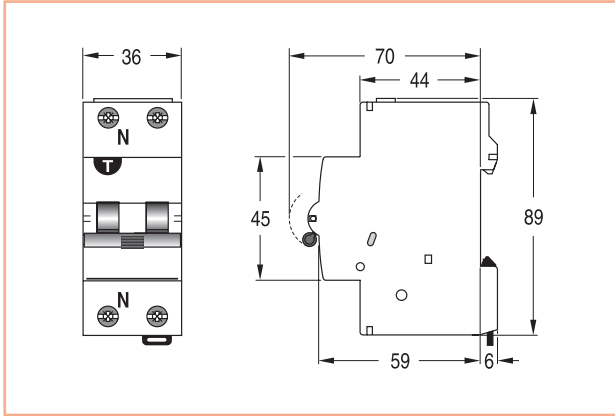
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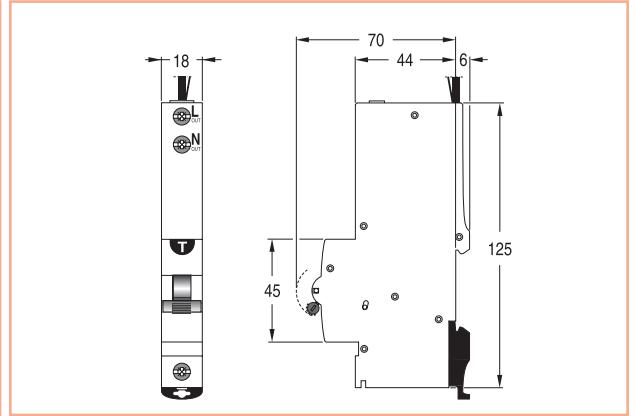
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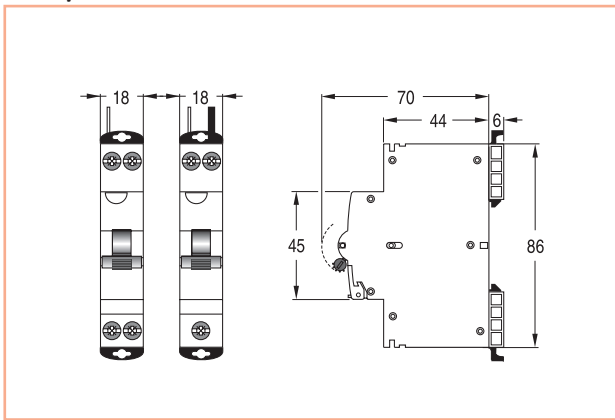
**RCBO's - Series DM and DPA100**



**RCBO's - Series DME**



**Compact e-RCBO - Series DMCE & DICE**



Add-on devices for MCB's and RCD's

Add-on-devices



Common add-on devices suitable for all MCB's and RCD's

Function			Type
H		<b>Auxiliary Contact H</b> For monitoring the status of the protection device ( Open/Closed) independently, if it has been actuated manually or automatically.	CA
S		<b>Signal or Auxiliary Contact S/H</b> For signalling the automatic tripping of the protection devices: Overload or short-circuit for MCB's Earth leakage tripping for RCD's	CA
S/H+H		<b>Signal or Auxiliary Contact S/H + Auxiliary Contact H</b> Two change-over contacts that include both functions as described above (S/H+H)	CB
PBS		<b>Panel Board Switch</b> For opening the main device when the panel frame is removed	PBS
TL		<b>Shunt Trip (Distance tripping by emission)</b> For opening the device when it is fed locally or remotely	Tele L
TU		<b>Undervoltage Release</b> For opening the device when the voltage goes lower than a certain value	Tele U
TM		<b>Motor Operator</b> Allows to switch on/off the devices from a distance	Tele MP





### Coupling of add-on devices on MCB's, RCCB's and modular switches

Cat. No.	Description	Function	EPC	G30	G45	G60	G100	GT10	GT25	EP100 UC EP100T EPP100	BP	DM	Series G + Diff-o-Click	ASTER
CA H	Auxiliary contact	H	L-R <sup>(2)</sup>	L-R	L-R	L-R	L-R	L-R	L-R	L-R	R	R	L	L-R
CA S/H	Signal or auxiliary contact	S/H	L-R <sup>(2)</sup>	L-R	L-R	L-R	L-R	L-R	L-R	L-R	R	R	L	L-R
CA S/H-G	Signal or auxiliary contact, gold contact	S/H	L-R <sup>(2)</sup>	L-R	L-R	L-R	L-R	L-R	L-R	L-R	R	R	L	L-R
CA UN H	Auxiliary contact	H	L-R <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-
CA UN S/H	Signal or auxiliary contact	S/H	L-R <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-
CB SH/HH-R	Signal or auxiliary + auxiliary contact	S/H+H	-	R	R	R	R	R	R	R	R	R	-	-
CB SH/HH-L	Signal or auxiliary + auxiliary contact	S/H+H	-	L	L	L	L	L	L	L	-	-	L	-
PBS	Panel board switch	PBS	L-R <sup>(2)</sup>	L-R	L-R	L-R	L-R	L-R	L-R	L-R	-	-	L-R	-
Tele L	Shunt trip	TL	L-R <sup>(2)</sup>	L-R	L-R	L-R	L-R	L-R	L-R	L-R	R	R	L	-
Tele U	Undervoltage release	TU	L-R <sup>(2)</sup>	L-R	L-R	L-R	L-R	L-R	L-R	L-R	R	R	L	-
Tele MP	Motor operator	TM	L-R	L-R	L-R	L-R	L-R	L-R	L-R	L-R	R	R	L	-

(1) Except 3P Unibis™ that only accept CA UN on the **left** side

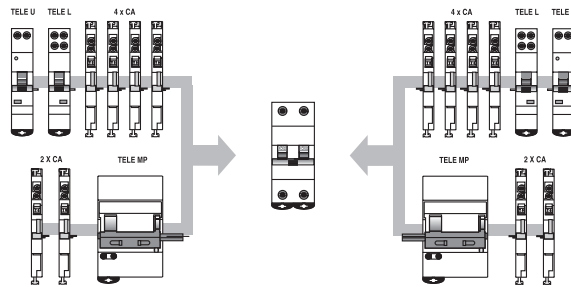
L = Coupling on the left

R = Coupling on the right

(2) Except Tele MP, all add-on devices on EPC need one CA UN as interface

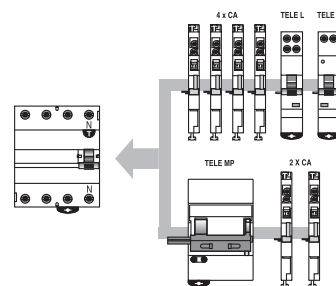
For detailed information, see website

#### Miniature Circuit Breakers Series G/EP Series EPC<sup>(3)</sup>

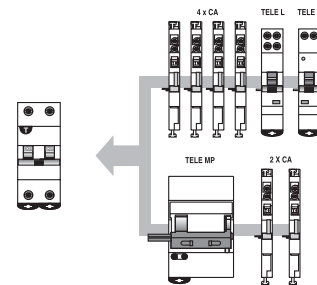


(3) Except for Tele MP the first auxiliary contact on MCB should always be CA UN

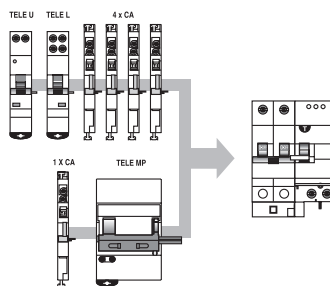
#### Residual Current Circuit Breakers (RCCB) Series BP



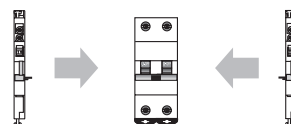
#### Residual Current Circuit Breakers (RCBO) with Overcurrent Protection Series DM



#### Miniature Circuit Breakers Series G + Diff-o-Click



#### Modular switches Aster



## Auxiliary

### Series CB

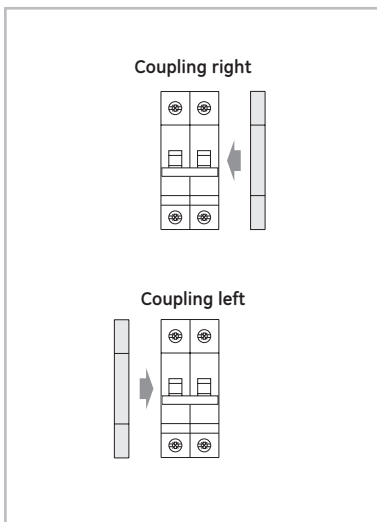
### EN/IEC 62019



### Applications



### Approvals



- 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 and modular switches type ASTM.
- Common for all modular protection devices: MCB's and RCBO's up to 63 A, RCCB's up to 100A.
- Can be coupled on both sides of MCB's and modular switches type ASTM.
- This device has 2 change-over contacts, the upper one with changeable function (S/H).
- Two versions: CB SH/HH-R to be coupled on the right side of the protection devices, CBSH/HH-L when assembled on the left side
- No stack-on possibilities (only 1 auxiliary)
- No busbar pass-through facilities

### Performance

Change-over contacts	2
Rated current In	(A) 5
Rated voltage AC Un	(V) 240
Electrical endurance	10000
Terminal capacity flexible/rigid cable	(mm <sup>2</sup> ) 2.5
Weight	(g) 80

### Utilisation

#### Bottom auxiliary contact (function H)

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

#### Top signal or auxiliary contact (function S/H).

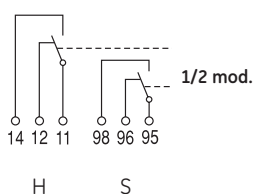
This auxiliary can act as an auxiliary contact (function H) or as a signal contact (function S)

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

Used as signal contact (function S) it provides information about 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 CB



Function	Cat. No	Ref. No.	Pack.
SH/HH	CB SH/HH-R <sup>(1)</sup>	672570	40
SH/HH	CB SH/HH-L <sup>(2)</sup>	672571	40

(1) R= coupling on the right      (2) L= coupling on the left

More technical data ● website  
Dimensions ● pg C.12



Series CB

A

B

C

D

E

F

G

X



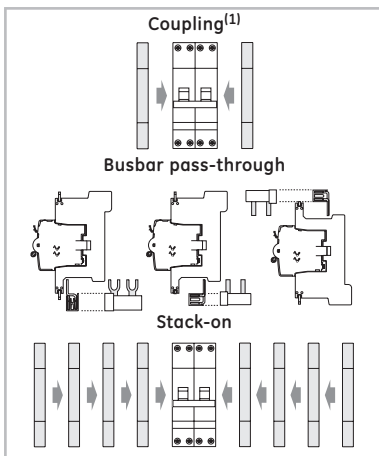
### Applications



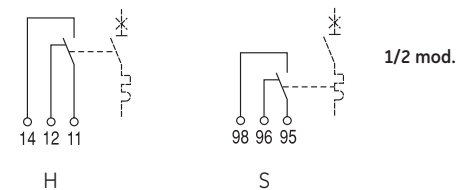
### Approvals / Marking



### Add-on devices



- (1) 3P Unibis™ MCB'S accept CA only on the **left** side
- (2) Only first auxiliary contact on MCB must be CA UN type as interface, than every extension can be stack-on mounted



## 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<sup>(1)</sup> 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 I <sub>n</sub>	(A) 5
Rated voltage AC U <sub>n</sub>	(V) 240
Electrical endurance	10000
Terminal capacity flexible/rigid cable	(mm <sup>2</sup> ) 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

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

## Motor Operator

### Tele MP

- Common device for all modular protection devices.
- Can be coupled on both sides of MCB's and modular switches, on the right hand side of RCCB's and RCBO's.
- Stack-on left and right sides up to 4 modules. One of them can be coupled between the main device and the motor operator.
- Can be locked in off position with a lock.
- Manual operating is possible.

The Tele MP allows to remotely open or close any MCB, RCCB, RCBO or modular switch by means of a push-button or any other automatic management processor (PLC..).

In case of mounting a Tele MP and a Undervoltage Tele U together: when the Tele U trips, a manual reset of the Tele U is locally needed due to safety reasons.



### Applications



### Standard

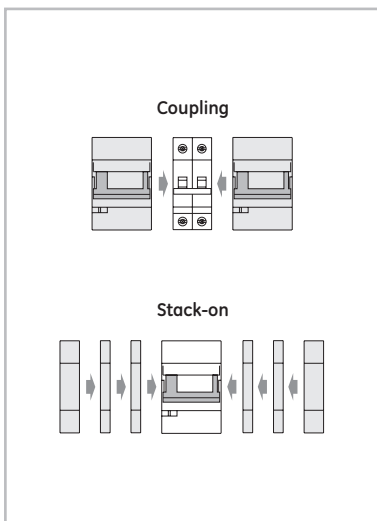
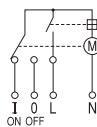
EN/IEC 60947-2

### Performance

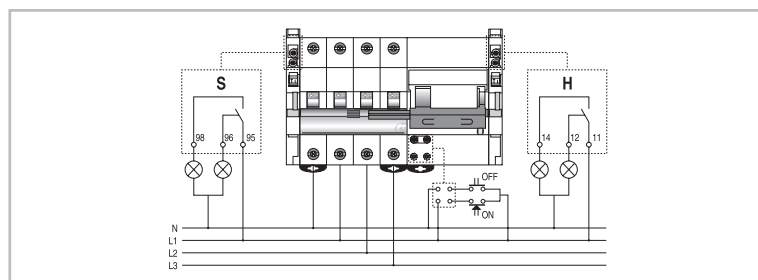
Rated voltage AC Un	(V)	240
Minimum voltage	(V)	200
Impulse to switch on	(ms)	50
Impulse to switch off	(ms)	50
Closing time	(s)	0.5
Opening time	(s)	0.2
Electrical endurance		10000
Terminal capacity flexible/rigid cable	(mm <sup>2</sup> )	2.5
Weight	(g)	380

### Tele MP - Motor operator

	Voltage	Cat. No.	Ref. No.	Pack.
3 mod.	AC 230V	TELE MP	672580	1



### Application example



More technical data ● website  
Dimensions ● pg C.12





## Shunt trip, Undervoltage release, Panel board switch

- Common device for all modular protection devices.
- Can be coupled on both sides of MCB's, on the right side of RCCB's and RCBO's.
- Permit the pass-through of busbars, pin & fork, at top or bottom terminals.
- Stack-on left and right side up to 4 modules.

### Shunt Trip Tele L

The Tele L allows to remotely switch off any MCB, RCCB or RCBO by means of push-buttons or any other automatic management processor. A built-in contact in series with the coil prevents burn-out damage if the voltage remains.


### Performance

<b>Rated voltage</b>	(V)	110/415, 110/125 DC
	(V)	24/60, 24/48 DC
<b>Tripping time</b>	(ms)	<10
<b>Electrical endurance</b>		10000
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	2.5
<b>Weight</b>	(g)	125
<b>Inrush current (Tele 2)</b>	at 110V AC	0.4A
	at 230V AC	0.9A
	at 415V AC	1.5A

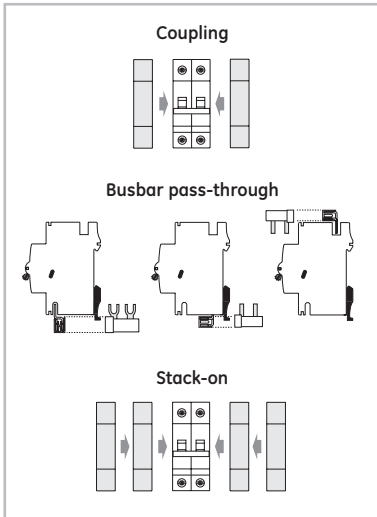
### Applications



### Approvals

EN/IEC 60947-2  (1)

(1) For TELE L-1 and TELE L-2



### Undervoltage Release Tele U


The Tele U releases the main MCB, RCCB, RCBO and modular switch in case the power supply drops below 0.5xUn. Time delay adjusting up to 300 ms.

### Performance

<b>Rated voltage AC Un</b>	(V)	240
<b>Rated voltage DC/AC Un</b>	(V)	12, 24, 48 DC/AC
<b>Tripping voltage</b>	(V)	≤0.5xUn±10%
<b>Resetting voltage</b>	(V)	>0.5xUn±10%
<b>Tripping time</b>	(ms)	Adjustable 0...300
<b>Electrical endurance</b>		2000
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> )	2.5
<b>Weight</b>	(g)	125

### Panel Board Switch PBS

The panel board switch PBS is a mechanical switch. When the panel frame releases the PBS switch, it will trip the protection devices (MCB's or RCD's). Consequently the distribution board will become isolated.

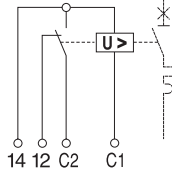
More technical data  website  
Dimensions  pg C.12



**Tele L - Shunt trip** 



1P  
1 mod.

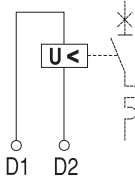


Voltage	Cat. No.	Ref. No.	Pack.
AC 24-60V DC 24-48V	TELE L-1	672573	1
AC 110-415V DC 110-125V	TELE L-2	672574	1

**Tele U - Undervoltage release**



1P  
1 mod.

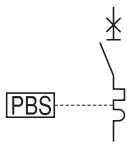


Voltage	Cat. No.	Ref. No.	Pack.
AC 240V	TELE U-230	672575	1
AC/DC 12V	TELE U-12	672576	1
AC/DC 24V	TELE U-24	672577	1
AC/DC 48V	TELE U-48	672578	1

**PBS - Panel board switch**



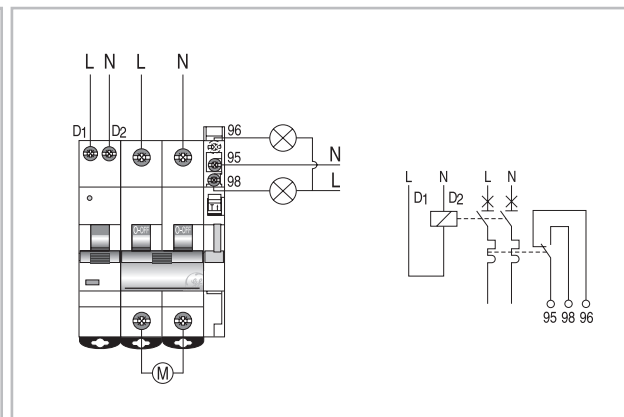
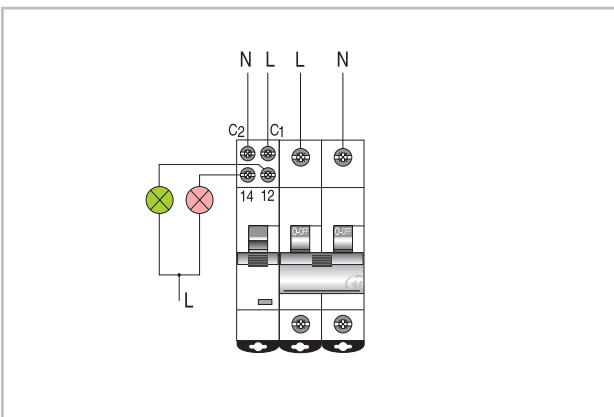
1P  
1/2 mod.



Cat. No.	Ref. No.	Pack.
PBS	672572	1

**Tele L**

**Tele U**



Tele L - Tele U - PBS

A

B

C

D

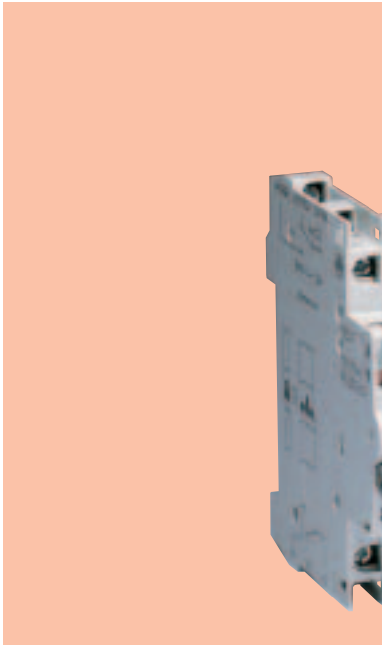
E

F

G

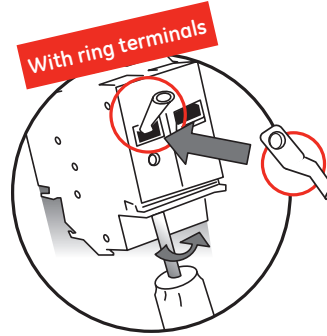
X





## Auxiliary contacts

### Series CBT



The miniature circuit breakers in RAIL-design have been developed with regard to shakes, shocks and vibrations

### Features

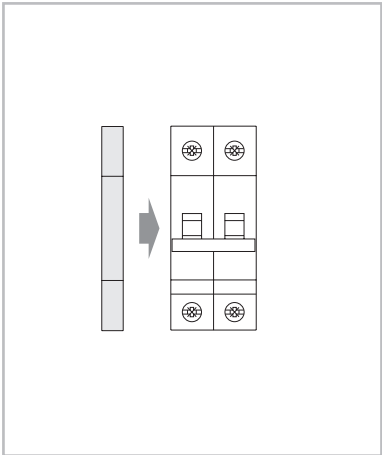
- Three versions: 1NO+1NF, 2NF, 2 NO
- CBT accepts ring terminals on wires
- Certified acc. new CEI UNI 11170 (higher protection against fires)
- Certified acc. to NF 16-101, smoke index F1
- Shock and vibrations tests acc. to IEC 61373

### Standards / Marking

EN 60898, EN 60947-2, UNI CEI 11170, EN 61373

### Approval

Trenitalia n° 371441.01



### Technical data

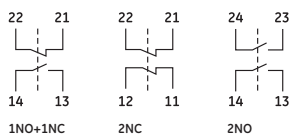
Number of change-over contacts	2
Thermal setting In	(A) 5 (230V~), 4 (24V ---), 1 (160V ---)
Rated voltage Un	(V) 230~160---
Endurance electrical	10.000
Terminal capacity flexible/rigid cable	(mm <sup>2</sup> ) 2.5
Unloosable screws	Pozidrive 2

#### Bottom auxiliary contact (function H)

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

More technical data ● website  
Dimensions ● pg C.12

### Series CBT

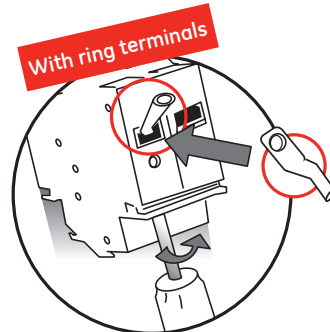


Contact combination	Cat. No.	Ref. No.	Pack.
1NO+1NC	CBT H NO-NC	667249	1
2NC	CBT H 2NC	667250	1
2NO	CBT H 2NO	667251	1



## Shunt trip (Distance tripping by emission)

### Series Tele LT



The miniature circuit breakers in RAIL-design have been developed with regard to shakes, shocks and vibrations

### Features

- Tele LT accepts ring terminals on wires
- Certified acc. new CEI UNI 11170 (higher protection against fires)
- Certified acc. to NF 16-101, smoke index F1
- Shock and vibrations tests acc. to IEC 61373

### Technical data

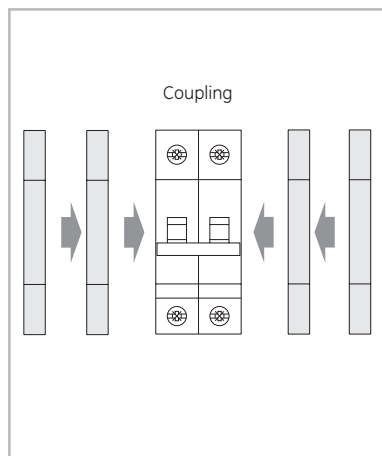
<b>Rated voltage</b>	(V) 110/415 ~ 110/128/150 ---
	(V) 24/60 ~ 24/48 ---
<b>Tripping time</b>	(ms) <10
<b>Electrical endurance</b>	10.000
<b>Terminal capacity flexible/rigid cable</b>	(mm <sup>2</sup> ) 2.5
<b>Unloosable screws</b>	Pozidrive 2
<b>U<sub>min</sub></b>	(V) 0,70 x Un
<b>U<sub>max</sub></b>	(V) 1.25 x Un

### Standards / Marking

EN 60898, EN 60947-2, UNI CEI 11170, EN 61373

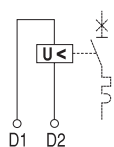
### Approval

Trenitalia n° 371441.01



More technical data ● website  
Dimensions ● pg C.12

### Tele LT



1/2 mod.

Voltage	Cat. No.	Ref. .No.	Pack.
CA 110/415 V ~ CC 110/128/150 V =	TELE LT-1	667252	1
CA 24/60 V ~ CC 24/48 V =	TELE LT-2	667253	1

Series CBT

A

B

C

D

E

F

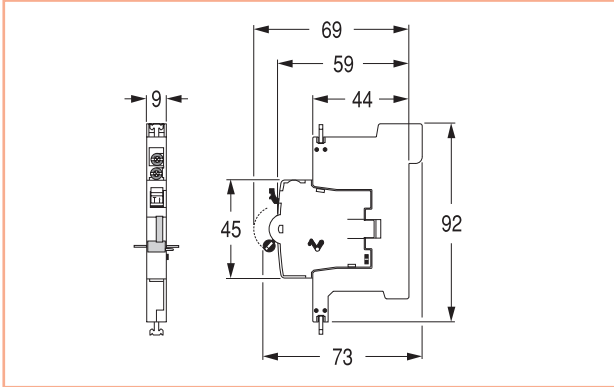
G

X

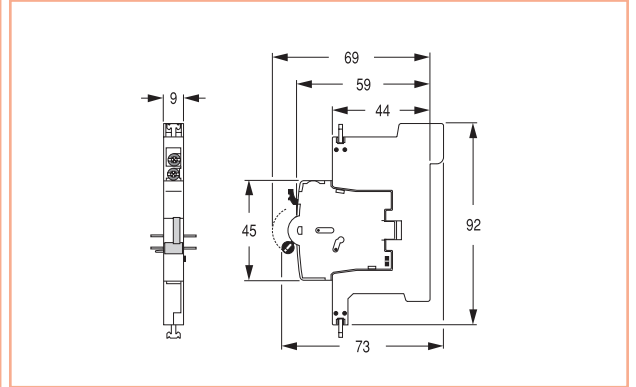


Dimensional drawings

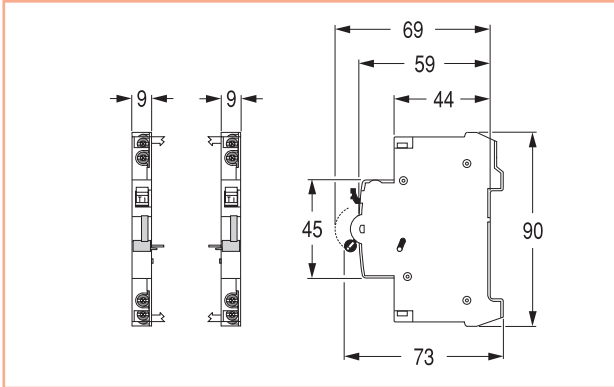
Auxiliary - Series CA



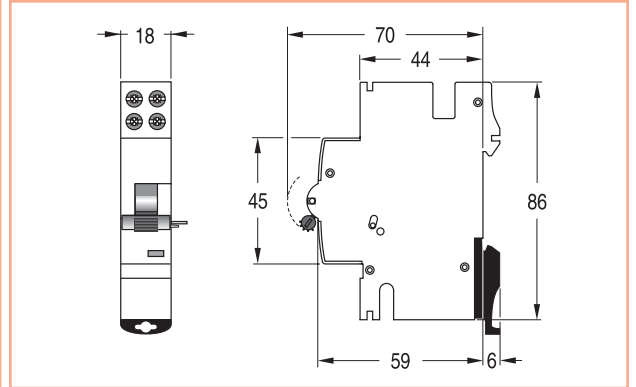
Auxiliary interface - Series CA - Unibis™



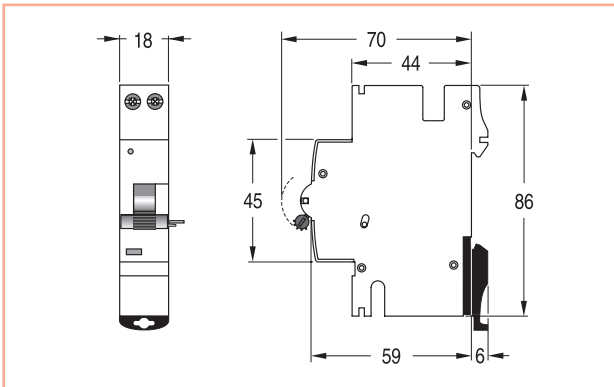
Auxiliary - Series CB / CBT



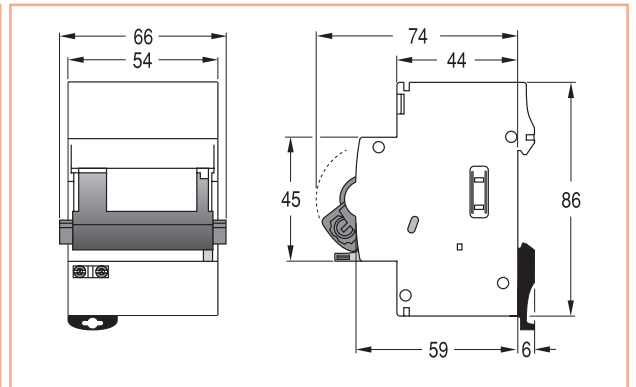
Shunt Trip - Tele L / Tele LT



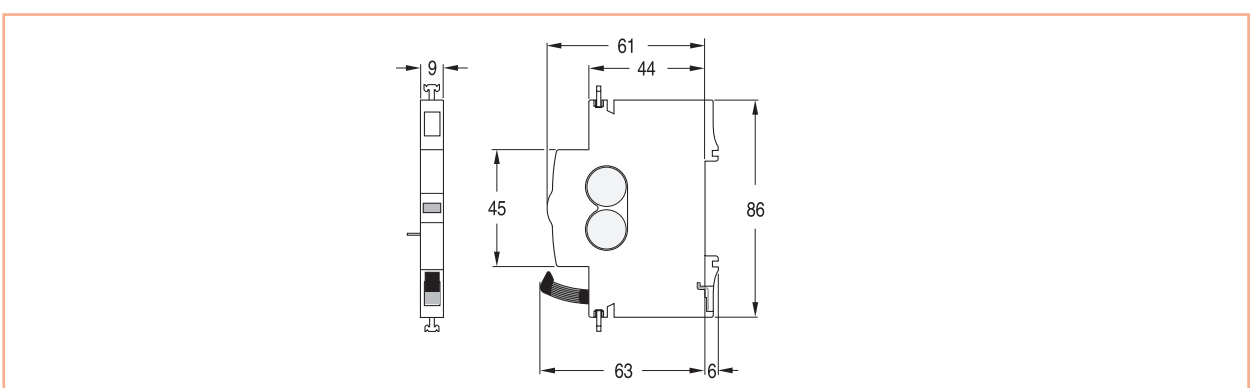
Undervoltage Release - Tele U



Motor operator - Tele MP



Panel board switch - PBS



Add-on-devices

A

B

C

D

E

F

G

X

