Selection table of RCCB's

Page no.	Series	Sensitivity (mA)	Poles	Type	Nominal current (A) 16	25	40	63	80	100	Isolator appl.	Add-on devices	Rated voltage
B.6	BP/BD												
		10	2P	AC/A							x	x	240
		30	2P	AC/A							x	x	240
				G							x	x	240
			4P	AC/A							x	x	240/415
				G							x	x	240/415
		100	2P	AC/A/S							x	x	240
				G							x	x	240
			4P	AC/A/S							x	x	240/415
				G							x	x	240/415
		300	2P	AC/A/S							x	x	240
			4P	AC/A/S							x	x	240/415
		500	2P	AC/A/S							x	x	240
			4P	AC/A/S							x	x	240/415
		1000	2P	AC/A/S							x	x	240
			4P	AC/A/S							x	x	240/415
B.20	FPP	**30,100, 300**	2P	A/S							x	x	240/415
				A/S							x	x	240/415

Selection table for add-on RCCB's

Page no.	Series	Sensitivity (mA)	Poles	Type	Tripping charact.	Nominal current (A) 32	63	Isolator appl.	Add-on devices	Rated voltage
B.16	Diff-o-Click									
		10	2-3-4	AC/A	-			-	-	240/415
		100	2-3-4	AC/A/S	-			-	-	240/415
		300	2-3-4	AC/A/S	-			-	-	240/415
		500	2-3-4	AC/A/S	-			-	-	240/415
		1000	2-3-4	AC/A/S	-			-	-	240/415

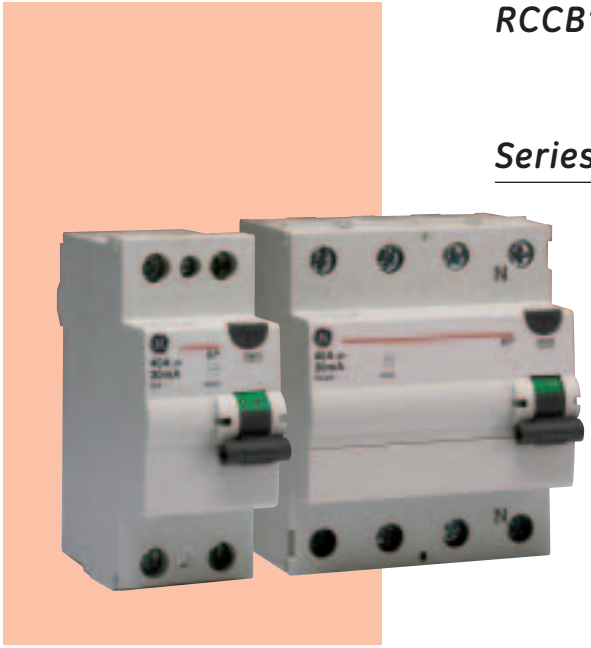
Technical data of RCD's

Series			BP/BD
Standards			EN/IEC 61008-1
Magnetic tripping characteristics			-
Residual tripping characteristic			AC, A, S
Tripping time at I Δn	Instantaneous	ms	<40
	Selective	ms	>150
Rated current		A	16,25,40,63, 80, 100
Rated residual current I Δn		mA	10,30,100,300,500,1000
Calibration temperature		°C	30
Number of poles versus modules			1
Rated voltage Un	2P AC	V	240
	3P AC	V	-
	4P AC	V	415
Frequency		Hz	50/60
Maximum service voltage Ubmax		V	2P=265 / 4P=455
Minimum service voltage Ubmin		V	2P=117 / 4P=205
Minimum voltage for leakage protection		V	Voltage independent
Power supply			Top/Bottom
Selectivity class			-
Rated making and breaking capacity (Im)		A	500 (or 10xIn)
Residual making and breaking capacity (IΔ m)		A	500 (or 10xIn)
Conditional short-circuit capacity (Inc)		A	10000 fuse 100A gLgG
Conditional residual short-circuit capacity (IΔ c)		A	10000 fuse 100A gLgG
Rated Short-circuit capacity (Icn)		A	-
Grid distance (safety distance between two devices)		mm	35
Isolator application			yes
Insulation degree	Insulation voltage	V (DC)	440
	Shock voltage (1.2/50µs)	kV	6
	Insulation resistance	MΩ	1000
	Dielectric strength	V	2500
Shock resistance (in x, y, z direction) (EN/IEC 60077/16.3)			40g, 18 shocks 5 ms
Vibration resistance (in x, y, z direction) (EN/IEC 60068-2-6)			1.5g, 30 min, 0...80Hz
Endurance	electrical at Un, In		10000
	mechanical at Un, In		20000
Protection degree (outside/inside electrical enclosure with door)			IP20 / IP40
Self extinguish degree (according to UL94)			V2
Tropicalisation (according to EN/IEC 60068-2, DIN 40046)		°C/RH	+55/95%
Pollution degree (acc. EN/IEC 60947-1)			3
Operating temperature			AC (-5.. +60); A -25.. +60)
Storage temperature		°C	-25..+70
Terminals capacity	Rigid cable min/max (top)	mm^2	1.5/50 [1.5/35]
	Flexible cable min*/max (top)	mm^2	1.5/35 [1.5/25]
	Rigid cable min/max (bottom)	mm^2	1.5/50 [1.5/35]
	Flexible cable min*/max (bottom)	mm^2	1.5/35 [1.5/25]
Torque	Top/Bottom	Nm	5/5
Add-on devices (side add-on)	Auxiliary contacts		yes
	Tele U		yes
	Tele L		yes
	Tele M		yes
	PBS		no
Busbars systems	Pin		yes
	Fork		yes
	# Poles		2-4
Dimensions	(HxDxW) 86x68xW		36/72
	Weight	mm	2P=250 / 4P=368
	Package	g	2P=1/6 / 4P=1/3
Approvals			KEMA
CE-marking			yes
Page			B.6

*Flexible cable 0.75/1/1.5 mm2 with cable lug

RCCB's - Residual Current Circuit Breakers

Series BP/BD



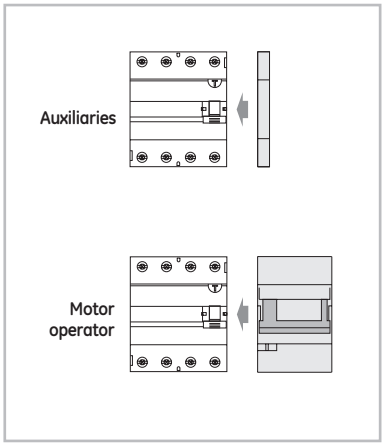
EN/IEC 61008-1
Type AC
Type A - Ai
Type S - Si S

Applications

Approval / Marking

KEMA KEUR CE

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.31

Performance

Thermal setting In	(A)	16, 25, 40, 63, 80, 100
Residual current IΔn	(mA)	10, 30, 100, 300, 500, 1000
Rated voltage AC Un	(V)	2P: 240 4P: 240/415
Minimum operating voltage U_{Bmin}	(V)	2P: 117 4P: 205
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^2)	35-50(1)
Poles		2, 4
Nuisance tripping resistance		Type A, AC: 250A 8/20μs; 200A 0.5μs - 100kHz Type S: 3000A 8/20μs Type Ai: 3000A 8/20μs Type Si: 5000A 8/20μs
Ambient temperature	(°C)	Type AC: -5 upto 40 Type A: -25 upto 40
Weight	(g)	2P: 220 4P: 385

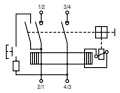
Short-circuit capacity

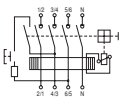
Acc. to EN/IEC 61008-1

Making and breaking capacity	Im ≥ 500A from 16 upto 40A In = 10In from 63 upto 100A
Residual making and breaking capacity	IΔm ≥ 500A from 16 upto 40A IΔm = 10In from 63 upto 100A
Short-circuit capacity	
Series BD	Inc = 6000A at 240/415V fuse 63A gG
Series BP	Inc = 10000A at 240/415V fuse 80A gG

(1) Series BD: 25-35 mm^2

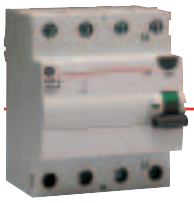
Series BP/BD - Type AC

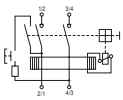


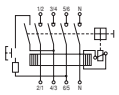


	10*/30mA		100mA		300mA		500mA		1000mA		
In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Pack.
2P											
16	BPC216/010*	**606131**	-	-	-	-	-	-	-	-	6
25	BDC225/030	**607125**	BPC225/100	**606140**	BDC225/300	**607127**	BPC225/500	**606153**	BPC225/1000	**606158**	6
40	BDC240/030	**607126**	BPC240/100	**606141**	BDC240/300	**607128**	BPC240/500	**606154**	BPC240/1000	**606159**	6
63	BPC263/030	**606134**	BPC263/100	**606142**	BPC263/300	**606150**	BPC263/500	**606155**	BPC263/1000	**606160**	6
80	BPC280/030	**606135**	BPC280/100	**606143**	BPC280/300	**606151**	BPC280/500	**606156**	BPC280/1000	**606161**	6
100	BPC2100/030	**606136**	BPC2100/100	**606144**	BPC2100/300	**606152**	BPC2100/500	**606157**	BPC2100/1000	**606162**	6
4P											
25	BPC425/030	**606208**	BPC425/100	**606216**	BPC425/300	**606224**	BPC425/500	**606229**	BPC425/1000	**606234**	3
40	BPC440/030	**606209**	BPC440/100	**606217**	BPC440/300	**606225**	BPC440/500	**606230**	BPC440/1000	**606235**	3
63	BPC463/030	**606210**	BPC463/100	**606218**	BPC463/300	**606226**	BPC463/500	**606231**	BPC463/1000	**606236**	3
80	BPC480/030	**606211**	BPC480/100	**606219**	BPC480/300	**606227**	BPC480/500	**606232**	BPC480/1000	**606237**	3
100	BPC4100/030	**606212**	BPC4100/100	**606220**	BPC4100/300	**606228**	BPC4100/500	**606233**	BPC4100/1000	**606238**	3

Series BP - Type A

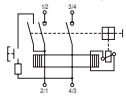


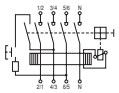




	10*/30mA		100mA		300mA		500mA		1000mA		
In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Pack.
2P											
16	BPA216/010*	**606085**	-	-	-	-	-	-	-	-	6
25	BPA225/030	**606086**	BPA225/100	**606091**	BPA225/300	**606101**	BPA225/500	**606111**	BPA225/1000	**606121**	6
40	BPA240/030	**606087**	BPA240/100	**606092**	BPA240/300	**606102**	BPA240/500	**606112**	BPA240/1000	**606122**	6
63	BPA263/030	**606088**	BPA263/100	**606093**	BPA263/300	**606103**	BPA263/500	**606113**	BPA263/1000	**606123**	6
80	BPA280/030	**606089**	BPA280/100	**606094**	BPA280/300	**606104**	BPA280/500	**606114**	BPA280/1000	**606124**	6
100	BPA2100/030	**606090**	BPA2100/100	**606095**	BPA2100/300	**606105**	BPA2100/500	**606115**	BPA2100/1000	**606125**	6
4P											
25	BPA425/030	**606163**	BPA425/100	**606168**	BPA425/300	**606178**	BPA425/500	**606188**	BPA425/1000	**606198**	3
40	BPA440/030	**606164**	BPA440/100	**606169**	BPA440/300	**606179**	BPA440/500	**606189**	BPA440/1000	**606199**	3
63	BPA463/030	**606165**	BPA463/100	**606170**	BPA463/300	**606180**	BPA463/500	**606190**	BPA463/1000	**606200**	3
80	BPA480/030	**606166**	BPA480/100	**606171**	BPA480/300	**606181**	BPA480/500	**606191**	BPA480/1000	**606201**	3
100	BPA4100/030	**606167**	BPA4100/100	**606172**	BPA4100/300	**606182**	BPA4100/500	**606192**	BPA4100/1000	**606202**	3

Series BP - Type S



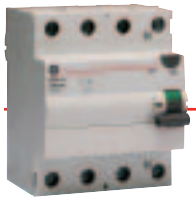


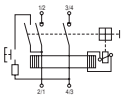
	100mA		300mA		500mA		1000mA		
In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Pack.
2P									
25	BPS225/100	**606096**	BPS225/300	**606106**	BPS225/500	**606116**	BPS225/1000	**606126**	6
40	BPS240/100	**606097**	BPS240/300	**606107**	BPS240/500	**606117**	BPS240/1000	**606127**	6
63	BPS263/100	**606098**	BPS263/300	**606108**	BPS263/500	**606118**	BPS263/1000	**606128**	6
80	BPS280/100	**606099**	BPS280/300	**606109**	BPS280/500	**606119**	BPS280/1000	**606129**	6
100	BPS2100/100	**606100**	BPS2100/300	**606110**	BPS2100/500	**606120**	BPS2100/1000	**606130**	6
4P									
25	BPS425/100	**606173**	BPS425/300	**606183**	BPS425/500	**606193**	BPS425/1000	**606203**	3
40	BPS440/100	**606174**	BPS440/300	**606184**	BPS440/500	**606194**	BPS440/1000	**606204**	3
63	BPS463/100	**606175**	BPS463/300	**606185**	BPS463/500	**606195**	BPS463/1000	**606205**	3
80	BPS480/100	**606176**	BPS480/300	**606186**	BPS480/500	**606196**	BPS480/1000	**606206**	3
100	BPS4100/100	**606177**	BPS4100/300	**606187**	BPS4100/500	**606197**	BPS4100/1000	**606207**	3

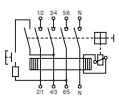
HIGH IMMUNITY

Series BP - Type Ai

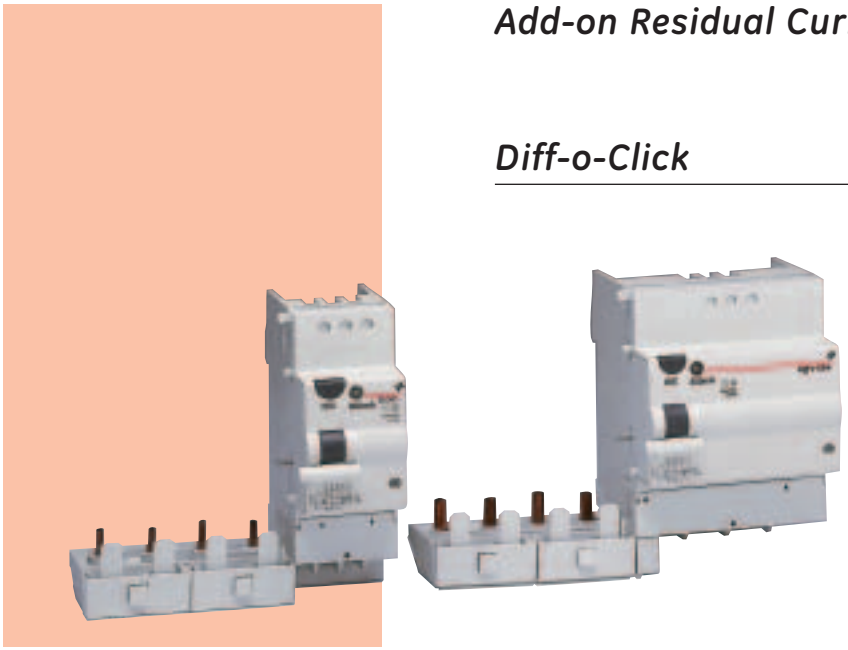
Series BP - Type Si







	30mA		300mA		300mA		
In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Pack.
2P							
25	BPAi225/030	**606331**	BPAi225/300	**606347**	BPSi225/300	**606337**	6
40	BPAi240/030	**606332**	BPAi240/300	**606348**	BPSi240/300	**606338**	6
63	BPAi263/030	**606333**	BPAi263/300	**606349**	BPSi263/300	**606339**	6
80	-	-	-	-	BPSi280/300	**606340**	6
100	-	-	-	-	BPSi2100/300	**606341**	6
4P							
25	BPAi425/030	**606334**	BPAi425/300	**606350**	BPSi425/300	**606342**	3
40	BPAi440/030	**606335**	BPAi440/300	**606351**	BPSi440/300	**606343**	3
63	BPAi463/030	**606336**	BPAi463/300	**606352**	BPSi463/300	**606344**	3
80	-	-	-	-	BPSi480/300	**606345**	3
100	-	-	-	-	BPSi4100/300	**606346**	3



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

KEMA KEUR CE

Add-on devices

Integrated auxiliary contact on demand.

Performance

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

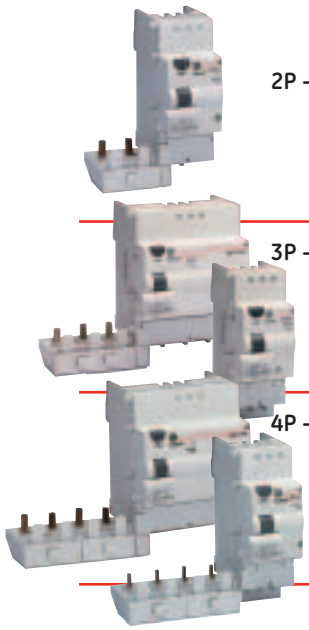
Short-circuit capacity

Depends on the associated MCB

		MCB			
		G30	*G45*	*G60*	*G100*
Residual making and breaking capacity	IΔm	3000	4500	6000	7500
Short-circuit capacity	Icn	3000	4500	6000	10000

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

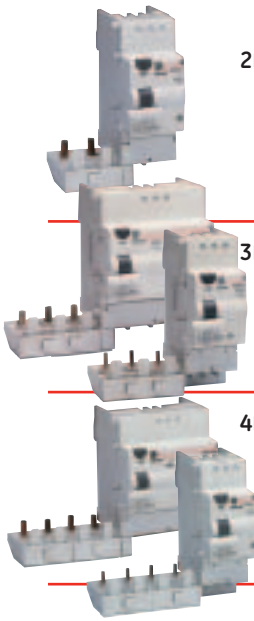
Add-on RCD - Series Diff-o-Click - Type AC



	In (A)	30 mA Cat. No.	30 mA Ref. No.	100 mA Cat. No.	100 mA Ref. No.	300 mA Cat. No.	300 mA Ref. No.	500 mA Cat. No.	500 mA Ref. No.	1000 mA Cat. No.	1000 mA Ref. No.	Pack.
2P - 2 mod.	32	DOC 232/030	**607536**	DOC 232/100	**607537**	DOC 232/300	**607538**	DOC 232/500	**607539**	DOC 232/1000	**607540**	1
	63	DOC 263/030	**607542**	DOC 263/100	**607543**	DOC 263/300	**607544**	DOC 263/500	**607545**	DOC 263/1000	**607546**	1
3P - 2 mod. 4 mod.	32	DOC 332/030	**607620**	DOC 332/100	**607621**	DOC 332/300	**607622**	DOC 332/500	**607623**	DOC 332/1000	**607624**	1
	63	DOC 363/030	**607626**	DOC 363/100	**607627**	DOC 363/300	**607628**	DOC 363/500	**607629**	DOC 363/1000	**607630**	1
4P - 2 mod. 4 mod.	32	DOC 532/030	**607722**	DOC 532/100	**607723**	DOC 532/300	**607724**	DOC 532/500	**607725**	DOC 532/1000	**607726**	1
	32	DOC 432/030	**607728**	DOC 432/100	**607729**	DOC 432/300	**607730**	DOC 432/500	**607731**	DOC 432/1000	**607732**	1
	63	DOC 463/030	**607734**	DOC 463/100	**607735**	DOC 463/300	**607736**	DOC 463/500	**607737**	DOC 463/1000	**607738**	1

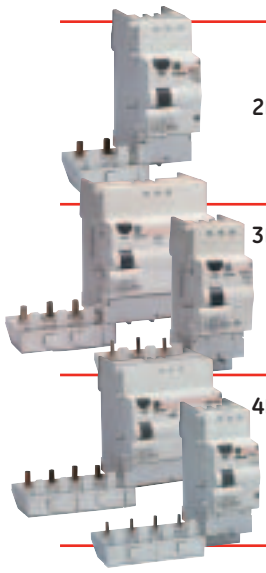
Note: 3P+N (unswitched) flying lead on request.

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



	In (A)	30 mA Cat. No.	30 mA Ref. No.	100 mA Cat. No.	100 mA Ref. No.	300 mA Cat. No.	300 mA Ref. No.	500 mA Cat. No.	500 mA Ref. No.	1000 mA Cat. No.	1000 mA Ref. No.	Pack.
2P - 2 mod.	32	DOCA 232/030	**607500**	DOCA 232/100	**607501**	DOCA 232/300	**607502**	DOCA 232/500	**607503**	DOCA 232/1000	**607504**	1
	63	DOCA 263/030	**607506**	DOCA 263/100	**607507**	DOCA 263/300	**607508**	DOCA 263/500	**607509**	DOCA 263/1000	**607510**	1
3P - 2 mod. 4 mod.	32	DOCA 332/030	**607584**	DOCA 332/100	**607585**	DOCA 332/300	**607586**	DOCA 332/500	**607587**	DOCA 332/1000	**607588**	1
	63	DOCA 363/030	**607590**	DOCA 363/100	**607591**	DOCA 363/300	**607592**	DOCA 363/500	**607593**	DOCA 363/1000	**607594**	1
4P - 2 mod. 4 mod.	32	DOCA 532/030	**607668**	DOCA 532/100	**607670**	DOCA 532/300	**607669**	DOCA 532/500	**607671**	DOCA 532/1000	**607672**	1
	32	DOCA 432/030	**607674**	DOCA 432/100	**607675**	DOCA 432/300	**607676**	DOCA 432/500	**607677**	DOCA 432/1000	**607678**	1
	63	DOCA 463/030	**607680**	DOCA 463/100	**607681**	DOCA 463/300	**607682**	DOCA 463/500	**607683**	DOCA 463/1000	**607684**	1

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



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

Residual Current Circuit Breakers

Series FPAUL — Recognized UL1053

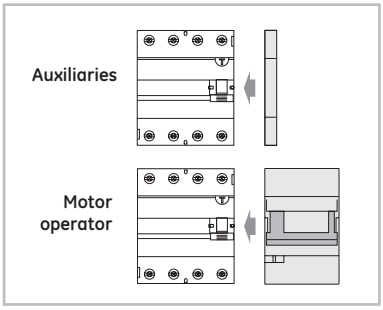
EN/IEC 61008-1
Type A

Applications

Approval

with UL approval

Add-on devices



Dimensions ● pg B.31

Performances UL

Maximum voltage AC	(V)	240
Fault current withstand	(kA)	10
UL file		E248309

Performances EN/IEC

Thermal setting In	(A)	16, 25, 40, 63
Residual current IΔn	(mA)	10, 30, 100, 300, 500
Rated maximum voltage AC Un	(V)	2P: 240 4P: 240/415
Minimum operating voltage U_{Bmin}	(V)	2P: 117 4P: 205
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^2)	35-50
Poles		2, 4
Nuisance tripping resistance	Type A:	250A 8/20µs; 3000A 8/20µs
Ambient temperature	(°C)	-25 upto 40
Weight	(g)	2P: 220 4P: 385

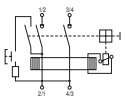
Short-circuit capacity

Acc. to EN/IEC 61008-1

Making and breaking capacity	Im = 500A
Residual making and breaking capacity	IΔ m ≥ 500A from 16 upto 40A IΔ m = 10In from 63 upto 100A
Short-circuit capacity	Inc = 10000A at 230/400V fuse 80A gG

Series FPAUL - Type A

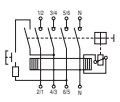
2P



In (A)	10*/30mA Cat. No.	10*/30mA Ref. No.	100mA Cat. No.	100mA Ref. No.	300mA Cat. No.	300mA Ref. No.	500mA Cat. No.	500mA Ref. No.	Pack.
16	FPAUL 216/010*	**608377**	-	-	-	-	-	-	
25	FPAUL 225/030	**608378**	FPAUL 225/100	**608379**	FPAUL 225/300	**608380**	FPAUL 225/500	**608381**	6
40	FPAUL 240/030	**608382**	FPAUL 240/100	**608383**	FPAUL 240/300	**608384**	FPAUL 240/500	**608385**	6
63	FPAUL 263/030	**608386**	FPAUL 263/100	**608387**	FPAUL 263/300	**608388**	FPAUL 263/500	**608401**	6

Series FPAUL - Type A

4P



In (A)	30mA Cat. No.	30mA Ref. No.	100mA Cat. No.	100mA Ref. No.	300mA Cat. No.	300mA Ref. No.	500mA Cat. No.	500mA Ref. No.	Pack.
25	FPAUL 425/030	**608389**	FPAUL 425/100	**608390**	FPAUL 425/300	**608391**	FPAUL 425/500	**608392**	3
40	FPAUL 440/030	**608393**	FPAUL 440/100	**608394**	FPAUL 440/300	**608395**	FPAUL 440/500	**608396**	3
63	FPAUL 463/030	**608397**	FPAUL 463/100	**608398**	FPAUL 463/300	**608399**	FPAUL 463/500	**608400**	3

Residual Current Circuit Breakers

Series FPP

Screwless connection

EN/IEC 61008-1

Type A

Type S S

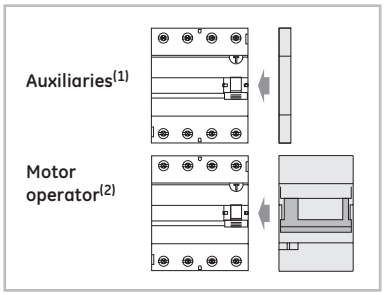
Performances

Thermal setting In	(A)	25, 40, 63
Residual current IΔn	(mA)	30, 100, 300
Rated voltage AC Un	(V)	2P: 240 4P: 415
Minimum operating voltage U_{Bmin}	(V)	2P: 117 4P: 205
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^2)	35-50
Poles		2 4
Nuisance tripping resistance		Type A Type S
Ambient temperature	(°C)	-25 ... +50
Weight	(g)	2P: 248 4P: 364

Applications

Approvals / Marking

Add-on devices



Short-circuit capacity

Acc. EN/IEC 61008-1	
Making and breaking capacity	Im = 500A
Residual making and breaking capacity	IΔm ≥ 500A from 16 upto 40A IΔm = 10In from 63 upto 100A
Short-circuit capacity	Inc = 10000A at 240/415V fuse 80A gG

(1) Series CA - Tele L - Tele U - PBS
(2) Only at right side end of the extreme pin busbar

Series FPP - Type A

Plug-in

	In (A)	30 mA Cat. No.	30 mA Ref. No.	100 mA Cat. No.	100 mA Ref. No.	300 mA Cat. No.	300 mA Ref. No.	Pack.
2P	25	FPPA225/030	**678359**	FPPA225/100	**678365**	FPPA225/300	**678371**	6
	40	FPPA240/030	**678360**	FPPA240/100	**678366**	FPPA240/300	**678372**	6
	63	FPPA263/030	**678361**	FPPA263/100	**678367**	FPPA263/300	**678373**	6
4P	25	FPPA425/030	**678362**	FPPA425/100	**678368**	FPPA425/300	**678374**	3
	40	FPPA440/030	**678363**	FPPA440/100	**678369**	FPPA440/300	**678375**	3
	63	FPPA463/030	**678364**	FPPA463/100	**678370**	FPPA463/300	**678376**	3

Series FPP - Type S S

	In (A)	30 mA Cat. No.	30 mA Ref. No.	100 mA Cat. No.	100 mA Ref. No.	300 mA Cat. No.	300 mA Ref. No.	Pack.
2P	40					FPPS240/300	**678377**	6
	63					FPPS263/300	**678378**	6
4P	40					FPPS440/300	**678379**	3
	63					FPPS463/300	**678380**	3

New

Terminal capacity

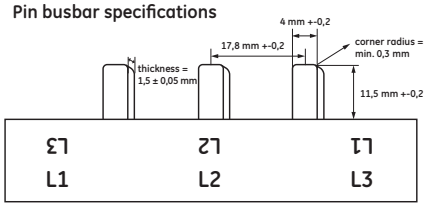
Top terminals

		Ratings 25A, 40A and 63A: Cage terminals
Rigid cable (min/max)	mm²	1.5/50
Flexible cable (min/max)	mm²	1.5/35
Recommended torque	Nm	2.5
Maximum torque	Nm	5

Bottom terminals

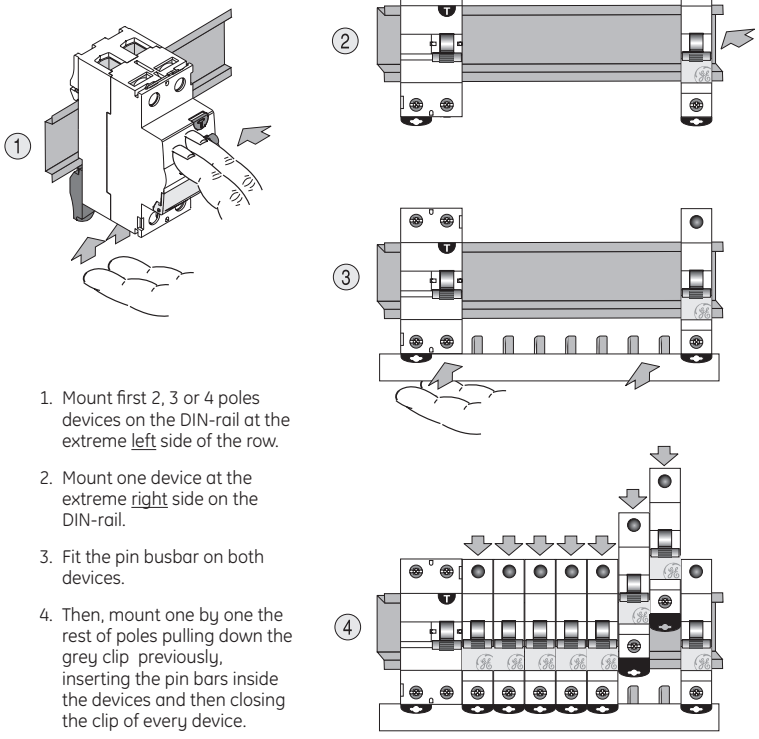
		Ratings 25A, 40A and 63A: Cage terminals (1)	Ratings 25A, 40A and 63A: Flat plug-in terminals (2)
Rigid cable (min/max)	mm²	1/25	To insert GE pin busbars. or other brands under following dimensions: Lenght = 11.5 ± 0.2mm Width= 4 ± 0.2 mm Thickness = 1.5 ± 0.05 mm Corners min. radius = 0.3 mm
Flexible cable (min/max)	mm²	0.75/16	
Recommended torque	Nm	2.5	
Maximum torque	Nm	4.5	

Pin busbar specifications



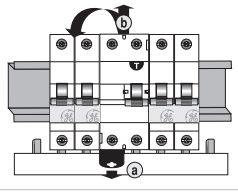
(1) Bottom terminals provide a cage terminal to connect also cables to feed other rows /devices limited to rated current of the device.
(2) Plug-in window terminals are only foreseen for pin busbars providing the incoming to several devices from the bottom side.
Not intended for any other conductor with or without cable lugs or cable connectors.

How to mount the busbar into devices



1. Mount first 2, 3 or 4 poles devices on the DIN-rail at the extreme left side of the row.
2. Mount one device at the extreme right side on the DIN-rail.
3. Fit the pin busbar on both devices.
4. Then, mount one by one the rest of poles pulling down the grey clip previously, inserting the pin bars inside the devices and then closing the clip of every device.

Easy to dismount from DIN rail

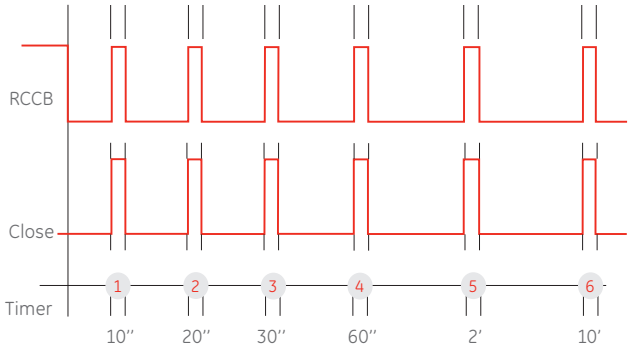


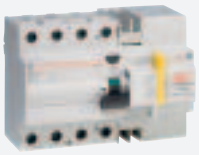
New

TeleREC reconnectir

Ensures power continuity in critical

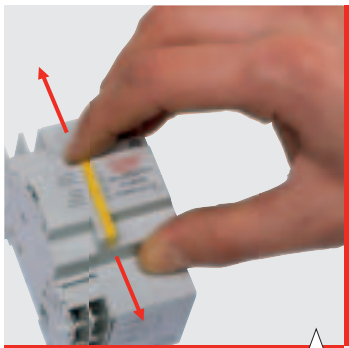
The TeleREC relay automatically recloses the RCCB after an earth leakage or a manual disconnect. The relay will attempt to re-close 6 times with different time intervals between re-close attempts. After 6 unsuccessful attempts the TeleREC is locked.





TeleREC BASIC

Commercial, Banks, Office buildings, Hospitals	Farms, Public lighting, Traffic lighting



Easy connection

The RCCB toggle slides easily into the toggle actuator of the relay.

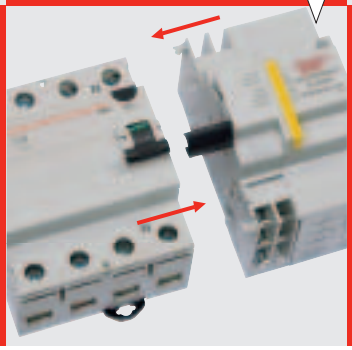
Redline

Auxiliary contact

TeleREC is equipped with an auxiliary contact (LI) to operate the re-closing system from a push-button.

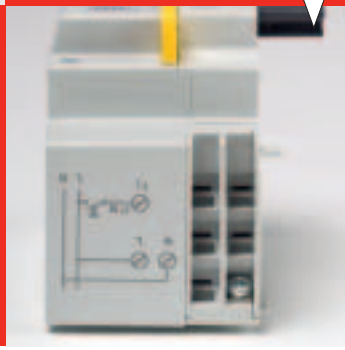
Status indicator

The yellow lever clearly indicates the status of the TeleREC.
In position 1 the relay is ready to work, in position 0 the relay is blocked both electrically and mechanically.



Part of the family

For each series of RCCB's and Redline a specific TeleREC reconnector is available.



New

ng system for RCCB's

applications

Full awareness

The relay is also equipped with a volt free output to indicate the status of the protection (connected/ disconnected).

Stable and secure

Strong clips to ensure a stable connection between the RCCB and the TeleREC relay.

One fits all

Both 2 modules and 4 modules RCCB's can be connected to the reconnection relay TeleREC.

New

Complete range of reconnection relays

TeleREC BASIC
For the residential/ commercial markets

TeleREC BASIC Ai
Power maintenance and reliability in one device

TeleREC PLUS
For the commercial/ industrial markets

TeleREC SOLAR
Specially designed for photovoltaic applications

New

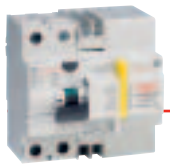
For the residential/commercial market

Series TeleREC BASIC - Type AC

	In (A)	30 mA Cat. No.	30 mA Ref. No.	Pack.
2P Type AC	40	Tele REC BASIC 240/030	676949	1
	63	Tele REC BASIC 263/030	677118	1
4P Type AC	40	Tele REC BASIC 440/030	676951	1
	63	Tele REC BASIC 463/030	677119	1

	In (A)	300 mA Cat. No.	300 mA Ref. No.	Pack.
2P Type AC	40	Tele REC BASIC 240/300	676950	1
	63	Tele REC BASIC 263/300	677120	1
4P Type AC	40	Tele REC BASIC 440/300	676952	1
	63	Tele REC BASIC 463/300	677121	1

Series TeleREC BASIC - Type A



	In (A)	30 mA Cat. No.	30 mA Ref. No.	Pack.
2P Type A	40	Tele REC BASIC A 240/030	677122	1
	63	Tele REC BASIC A 263/030	677123	1
4P Type A	40	Tele REC BASIC A 440/030	677124	1
	63	Tele REC BASIC A 463/030	677125	1

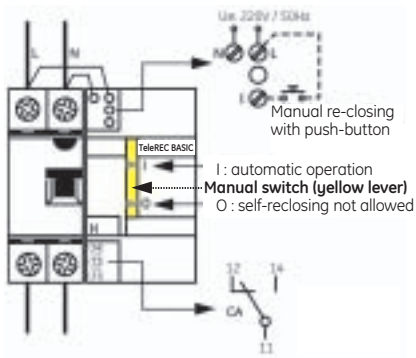
	In (A)	300 mA Cat. No.	300 mA Ref. No.	Pack.
2P Type A	40	Tele REC BASIC A 240/300	677126	1
	63	Tele REC BASIC A 263/300	677127	1
4P Type A	40	Tele REC BASIC A 440/300	677128	1
	63	Tele REC BASIC A 463/300	677129	1

Power maintenance and reliability in one device

Series TeleREC BASIC - Type Ai

	In (A)	30 mA Cat. No.	30 mA Ref. No.	Pack.
2P Type Ai	40	Tele REC BASIC Ai 240/030	677130	1
	63	Tele REC BASIC Ai 263/030	677131	1

Electrical diagram



The complete solution in **only one device:**

- Total protection against person's indirect contacts.
- Safe reconnection of RCCB after trip by transitory earth leakage.
- Maintenance of power against trips provoked by high frequency earth leakages.
- Maintenance of power against shock waves up to 3000 A.

New

For the commercial/industrial market

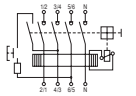
Series TeleREC PLUS

Reconnection relay

In (A)	Reconnection relay Cat. No.	Ref. No.	Pack.
-	Tele REC PLUS Motor	**677132**	1

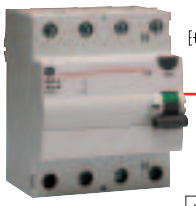
The reconnection relay TeleREC PLUS can be easily coupled to any RCCB:

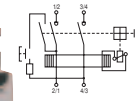
Series BP/BD - Type AC



	In (A)	10*/30mA Cat. No.	Ref. No.	100mA Cat. No.	Ref. No.	300mA Cat. No.	Ref. No.	500mA Cat. No.	Ref. No.	1000mA Cat. No.	Ref. No.	Pack.
2P Type AC	16	BPC216/010*	**606131**	-	-	-	-	-	-	-	-	6
	25	BDC225/030	**607125**	BPC225/100	**606140**	BDC225/300	**607127**	BPC225/500	**606153**	BPC225/1000	**606158**	6
	40	BDC240/030	**607126**	BPC240/100	**606141**	BDC240/300	**607128**	BPC240/500	**606154**	BPC240/1000	**606159**	6
	63	BPC263/030	**606134**	BPC263/100	**606142**	BPC263/300	**606150**	BPC263/500	**606155**	BPC263/1000	**606160**	6
	80	BPC280/030	**606135**	BPC280/100	**606143**	BPC280/300	**606151**	BPC280/500	**606156**	BPC280/1000	**606161**	6
	100	BPC2100/030	**606136**	BPC2100/100	**606144**	BPC2100/300	**606152**	BPC2100/500	**606157**	BPC2100/1000	**606162**	6
4P Type AC	25	BPC425/030	**606208**	BPC425/100	**606216**	BPC425/300	**606224**	BPC425/500	**606229**	BPC425/1000	**606234**	3
	40	BPC440/030	**606209**	BPC440/100	**606217**	BPC440/300	**606225**	BPC440/500	**606230**	BPC440/1000	**606235**	3
	63	BPC463/030	**606210**	BPC463/100	**606218**	BPC463/300	**606226**	BPC463/500	**606231**	BPC463/1000	**606236**	3
	80	BPC480/030	**606211**	BPC480/100	**606219**	BPC480/300	**606227**	BPC480/500	**606232**	BPC480/1000	**606237**	3
	100	BPC4100/030	**606212**	BPC4100/100	**606220**	BPC4100/300	**606228**	BPC4100/500	**606233**	BPC4100/1000	**606238**	3

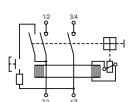
Series BP - Type A





	In (A)	10*/30mA Cat. No.	Ref. No.	100mA Cat. No.	Ref. No.	300mA Cat. No.	Ref. No.	500mA Cat. No.	Ref. No.	1000mA Cat. No.	Ref. No.	Pack.
2P Type A	16	BPA216/010*	**606085**	-	-	-	-	-	-	-	-	6
	25	BPA225/030	**606086**	BPA225/100	**606091**	BPA225/300	**606101**	BPA225/500	**606111**	BPA225/1000	**606121**	6
	40	BPA240/030	**606087**	BPA240/100	**606092**	BPA240/300	**606102**	BPA240/500	**606112**	BPA240/1000	**606122**	6
	63	BPA263/030	**606088**	BPA263/100	**606093**	BPA263/300	**606103**	BPA263/500	**606113**	BPA263/1000	**606123**	6
	80	BPA280/030	**606089**	BPA280/100	**606094**	BPA280/300	**606104**	BPA280/500	**606114**	BPA280/1000	**606124**	6
	100	BPA2100/030	**606090**	BPA2100/100	**606095**	BPA2100/300	**606105**	BPA2100/500	**606115**	BPA2100/1000	**606125**	6
4P Type A	25	BPA425/030	**606163**	BPA425/100	**606168**	BPA425/300	**606178**	BPA425/500	**606188**	BPA425/100	**606198**	3
	40	BPA440/030	**606164**	BPA440/100	**606169**	BPA440/300	**606179**	BPA440/500	**606189**	BPA440/1000	**606199**	3
	63	BPA463/030	**606165**	BPA463/100	**606170**	BPA463/300	**606180**	BPA463/500	**606190**	BPA463/1000	**606200**	3
	80	BPA480/030	**606166**	BPA480/100	**606171**	BPA480/300	**606181**	BPA480/500	**606191**	BPA480/1000	**606201**	3
	100	BPA4100/030	**606167**	BPA4100/100	**606172**	BPA4100/300	**606182**	BPA4100/500	**606192**	BPA4100/1000	**606202**	3

Series BP - Type S



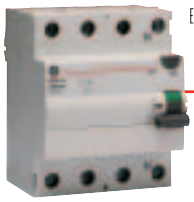
	In (A)	100mA Cat. No.	Ref. No.	300mA Cat. No.	Ref. No.	500mA Cat. No.	Ref. No.	1000mA Cat. No.	Ref. No.	Pack.
2P Type S	25	BPS225/100	**606096**	BPS225/300	**606106**	BPS225/500	**606116**	BPS225/1000	**606126**	6
	40	BPS240/100	**606097**	BPS240/300	**606107**	BPS240/500	**606117**	BPS240/1000	**606127**	6
	63	BPS263/100	**606098**	BPS263/300	**606108**	BPS263/500	**606118**	BPS263/1000	**606128**	6
	80	BPS280/100	**606099**	BPS280/300	**606109**	BPS280/500	**606119**	BPS280/1000	**606129**	6
	100	BPS2100/100	**606100**	BPS2100/300	**606110**	BPS2100/500	**606120**	BPS2100/1000	**606130**	6
4P Type S	25	BPS425/100	**606173**	BPS425/300	**606183**	BPS425/500	**606193**	BPS425/1000	**606203**	3
	40	BPS440/100	**606174**	BPS440/300	**606184**	BPS440/500	**606194**	BPS440/1000	**606204**	3
	63	BPS463/100	**606175**	BPS463/300	**606185**	BPS463/500	**606195**	BPS463/1000	**606205**	3
	80	BPS480/100	**606176**	BPS480/300	**606186**	BPS480/500	**606196**	BPS480/1000	**606206**	3
	100	BPS4100/100	**606177**	BPS4100/300	**606187**	BPS4100/500	**606197**	BPS4100/1000	**606207**	3

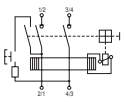
New

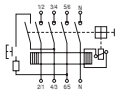
Series BP - Type Ai

Series BP - Type Si

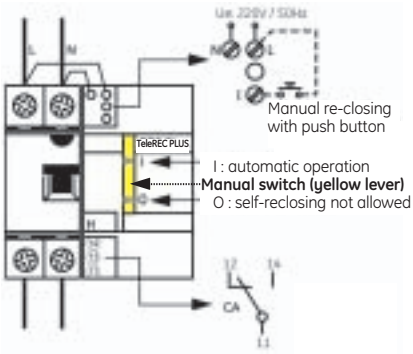
		30mA		300mA		300mA		
	In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Pack.
2P Type S	25	BPAi225/030	**606331**	BPAi225/300	**606347**	BPSi225/300	**606337**	6
	40	BPAi240/030	**606332**	BPAi240/300	**606348**	BPSi240/300	**606338**	6
	63	BPAi263/030	**606333**	BPAi263/300	**606349**	BPSi263/300	**606339**	6
	80	-	-	-	-	BPSi280/300	**606340**	6
	100	-	-	-	-	BPSi2100/300	**606341**	6
4P Type S	25	BPAi425/030	**606334**	BPAi425/300	**606350**	BPSi425/300	**606342**	3
	40	BPAi440/030	**606335**	BPAi440/300	**606351**	BPSi440/300	**606343**	3
	63	BPAi463/030	**606336**	BPAi463/300	**606352**	BPSi463/300	**606344**	3
	80	-	-	-	-	BPSi480/300	**606345**	3
	100	-	-	-	-	BPSi4100/300	**606346**	3

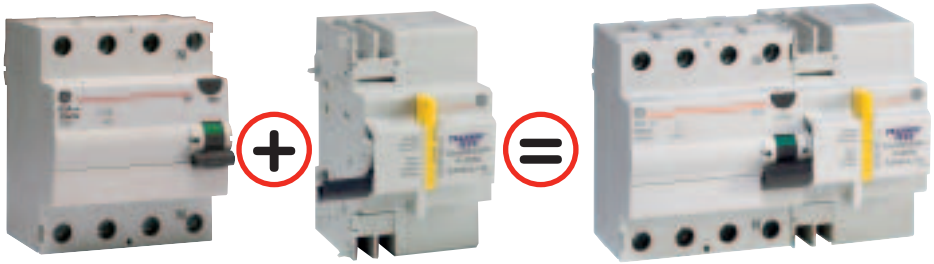






Electrical diagram





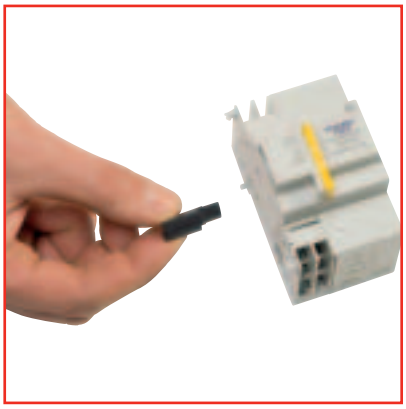
New

Mounting instructions TeleREC PLUS

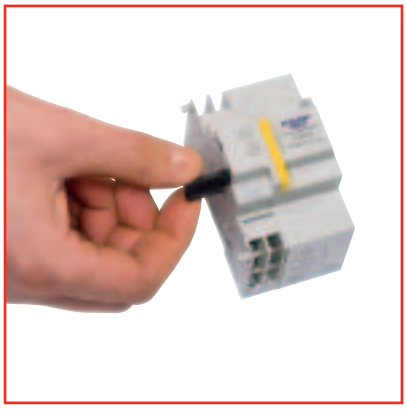
1.

Place the reconnection relay on a flat surface and lock relay in OFF position using the yellow sliding lever.

2.



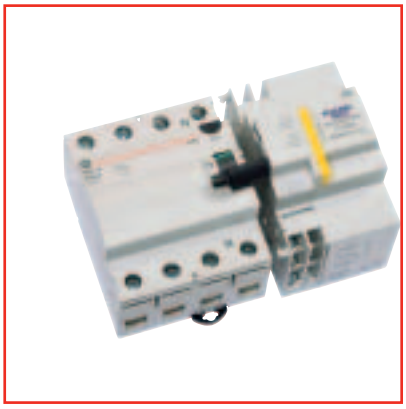
Install the toggle actuator in the relay.



3.

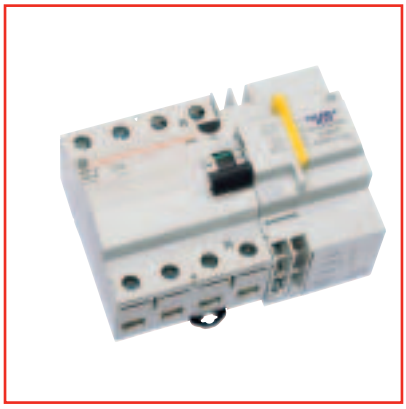
Ensure RCCB is OFF. Align relay and RCCB. Check the make and model of RCCB.
NOTE: The motorized reconnecting system is only adequate for use with RCCB's of the following series : Series BP, BD.
Do not use for reconnecting circuit breakers with overload and/or short-circuit protection. It may result in damage to the breaker or the installation!

4.



Approach devices ensuring the RCCB toggle slides into the toggle actuator.

5.



Press devices together until fixing clips "click" in place.

6.

Inspect both clips to ensure correct fixation.

New

Especially designed for photovoltaic applications

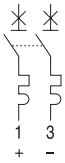
Series TeleREC SOLAR

Reconnection relay

	Reconnection relay		
In (A)	Cat. No.	Ref. No.	Pack.
-	Tele REC SOLAR Motor	**677133**	1

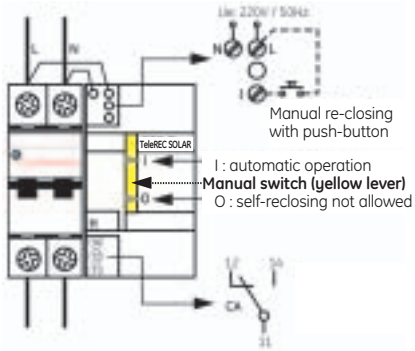
The reconnection relay TeleREC SOLAR can be easily coupled to MCB's series EP100 UC:

Series EP100 UC - 10kA - characteristic B-C

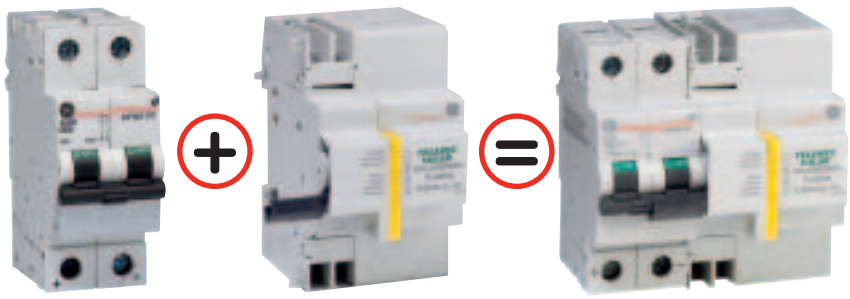


	B		C		
In (A)	Cat. No.	Ref. No.	Cat. No.	Ref. No.	Pack.
6	EP102UCB06	**673342**	EP102UCC06	**673322**	6
10	EP102UCB10	**673343**	EP102UCC10	**673324**	6
16	EP102UCB16	**673344**	EP102UCC16	**673326**	6
20	EP102UCB20	**673345**	EP121UCC20	**673327**	6
25	EP102UCB25	**673346**	EP102UCC25	**673328**	6
32	EP102UCB32	**673347**	EP102UCC32	**673329**	6
40	EP102UCB40	**673348**	EP102UCC40	**673330**	6
50	EP102UCB50	**673349**	EP102UCC50	**673331**	6
63	EP102UCB63	**673350**	EP102UCC63	**673332**	6

Electrical diagram



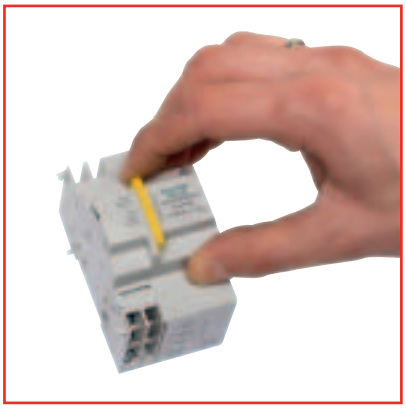
Only valid for photovoltaic application with MCB's Series EP102UC until 440Vdc (Icc<2In).
The TeleREC SOLAR voltage is 230Vac.



New

Mounting instructions TeleREC SOLAR

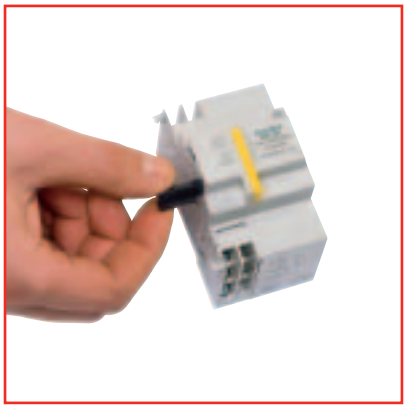
1.



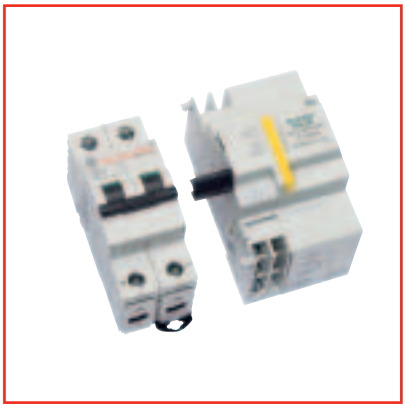
Place the reconnection relay on a flat surface and lock relay in OFF position using the yellow sliding lever.

2.

Install the toggle actuator in the relay.



3.



Ensure that the MCB EP 102UC is OFF. Align relay and MCB. Check the make and model of MCB.
NOTE: The motorized reconnecting system is only adequate for use with MCB'S EP 102UC. Do not use for reconnecting circuit breakers with overload and/or short-circuit protection. It may result in damage to the breaker or the installation!

4.

Approach devices ensuring the MCB toggle slides into the toggle actuator.

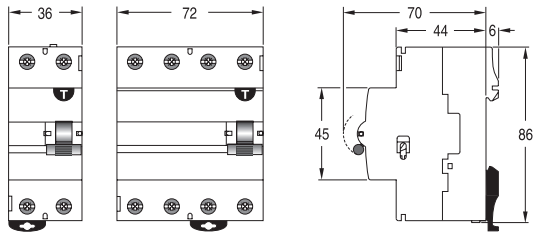
5.

Press devices together until fixing clips "click" in place.

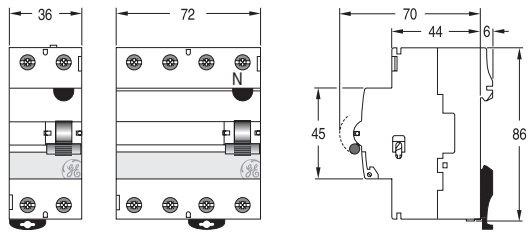
6.

Dimensional drawings

RCCB's - Series BP/BD and FPAUL

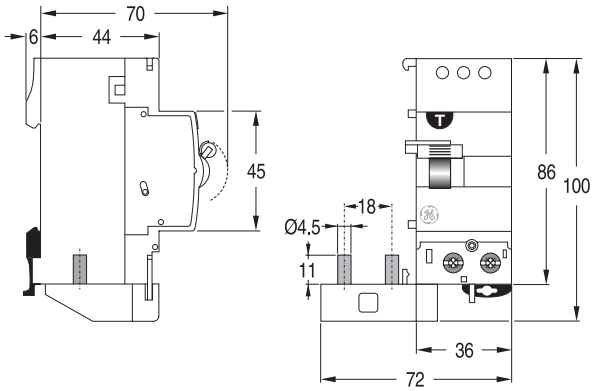


RCCB's - Series FPP - Fixwell™

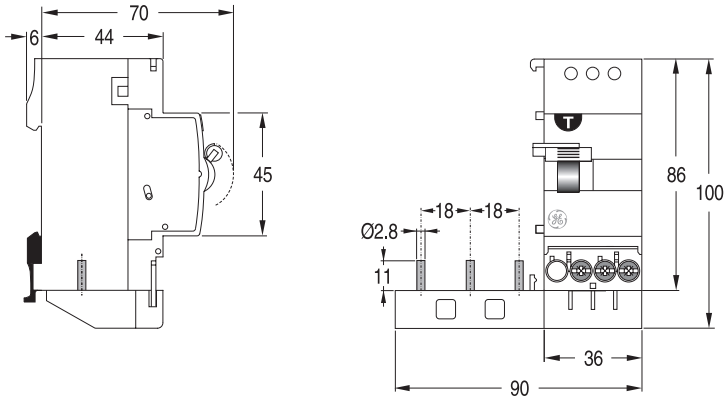


Add-on RCCB - Series Diff-o-Click

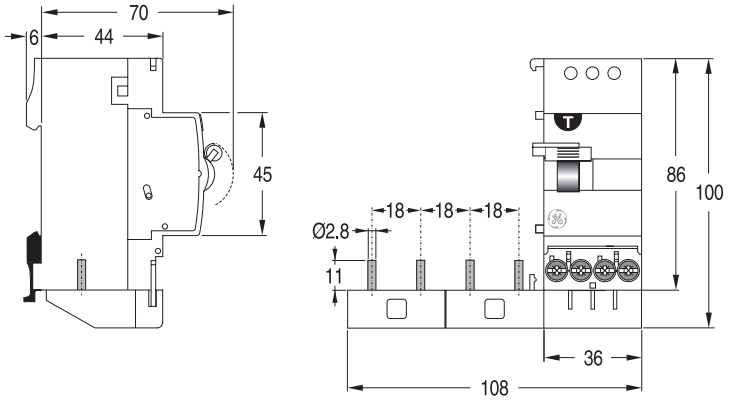
2P 32A
2P 63A



3P 32A



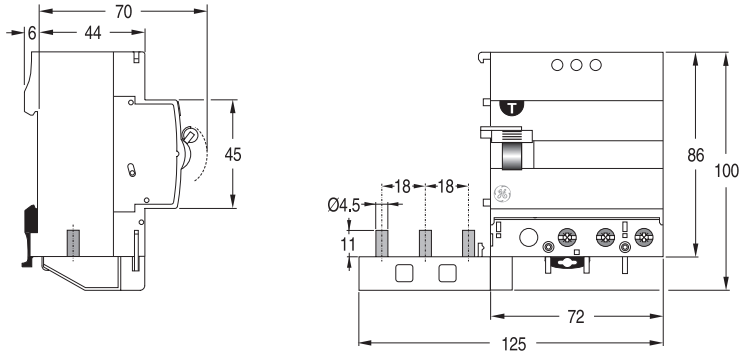
4P 32A



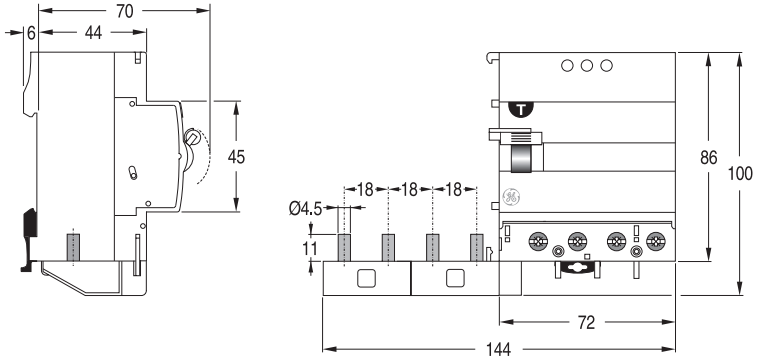
Dimensional drawings

Add-on RCCB - Series Diff-o-Click (continued)

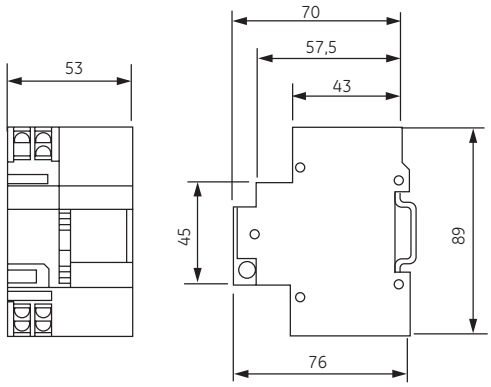
3P 63A



4P 63A

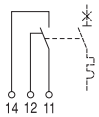
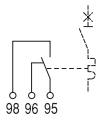
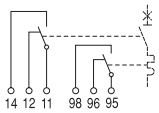
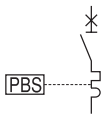
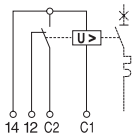
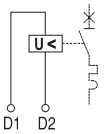
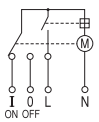


TeleREC - Reconnection relay



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

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

Function			Type
H		**Auxiliary Contact H** For monitoring the status of the protection device (Open/Closed) independently, if it has been actuated manually or automatically.	CA
S		**Signal or Auxiliary Contact S/H** 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		**Signal or Auxiliary Contact S/H + Auxiliary Contact H** Two change-over contacts that include both functions as described above (S/H+H)	CB
PBS		**Panel Board Switch** For opening the main device when the panel frame is removed	PBS
TL		**Shunt Trip (Distance tripping by emission)** For opening the device when it is fed locally or remotely	Tele L
TU		**Undervoltage Release** For opening the device when the voltage goes lower than a certain value	Tele U
TM		**Motor Operator** 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[2]	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[2]	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[2]	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[1]	-	-	-	-	-	-	-	-	-	-	-
CA UN S/H	Signal or auxiliary contact	S/H	L-R[1]	-	-	-	-	-	-	-	-	-	-	-
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[2]	L-R	L-R	L-R	L-R	L-R	L-R	L-R	-	-	L-R	-
Tele L	Shunt trip	TL	L-R[2]	L-R	L-R	L-R	L-R	L-R	L-R	L-R	R	R	L	-
Tele U	Undervoltage release	TU	L-R[2]	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	-

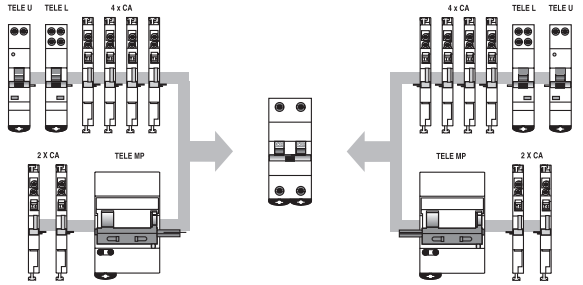
(1) Except 3P Unibis™ that only accept CA UN on the **left** side
(2) Except Tele MP, all add-on devices on EPC need one CA UN as interface

L = Coupling on the left R = Coupling on the right

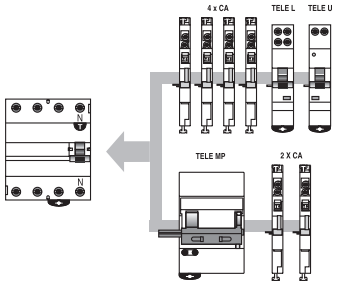
For detailed information, see website

Miniature Circuit Breakers
Series G/EP
Series EPC[3]

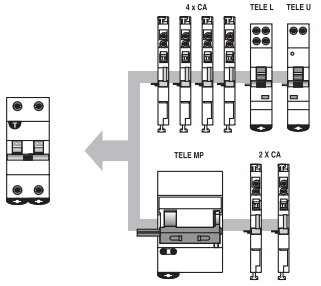
(3) Except for Tele MP the first auxiliary contact on MCB should always be CA UN



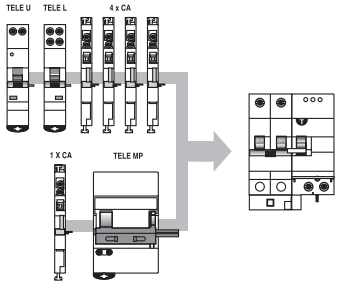
Residual Current Circuit Breakers (RCCB)
Series BP



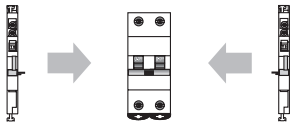
Residual Current Circuit Breakers (RCBO)
with Overcurrent Protection
Series DM

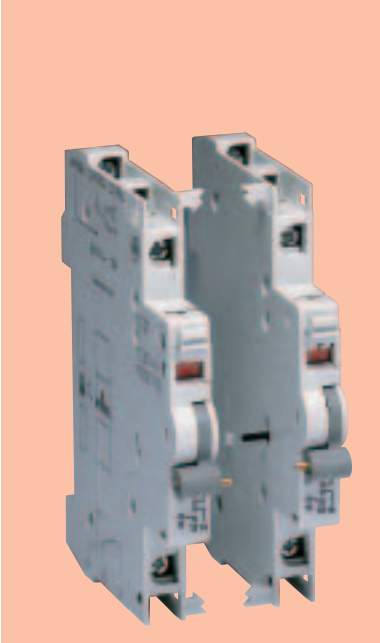


Miniature Circuit Breakers
Series G
+ Diff-o-Click



Modular switches
Aster





Auxiliary

Series CB — EN/IEC 62019

- 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

Applications

Approvals

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^2)	2.5
Weight	(g)	80

Utilisation

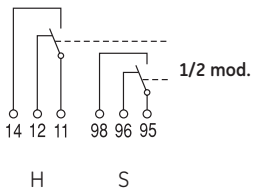
Bottom auxiliary contact (function H)
Provides the status of the protection device, OPEN/CLOSED.
Top signal or auxiliary contact (function S/H).
This auxiliary can act as an auxiliary contact (function H) or as a signal contact (function S)
The user can make the change of the function at the moment of 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)

Coupling right

Coupling left

Series CB



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

(1) R= coupling on the right

(2) L= coupling on the left

More technical data website
Dimensions pg C.12

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.

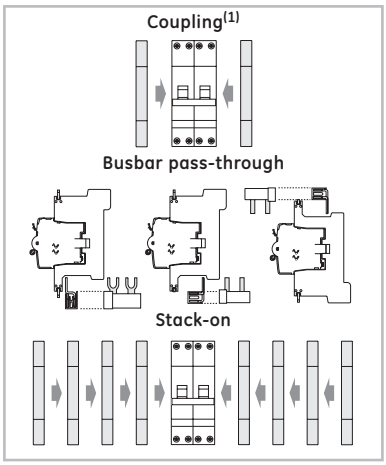
The auxiliary contacts are units to be added on to protection devices. They allow information to be monitored from a distance about the protection devices.

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)

Applications

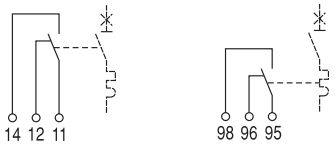
Approvals / Marking

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

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

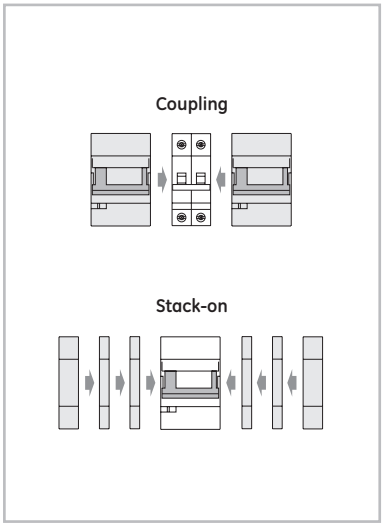
New

More technical data ● website
Dimensions ● pg C.12

Applications

Standard

EN/IEC 60947-2



More technical data website
Dimensions pg C.12

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..).

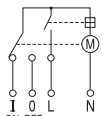
In case of mounting a Tele MP and a Undervoltage Tele U togheter: when the Tele U trips, a manual reset of the Tele U is locally needed due to safety reasons.

Performance

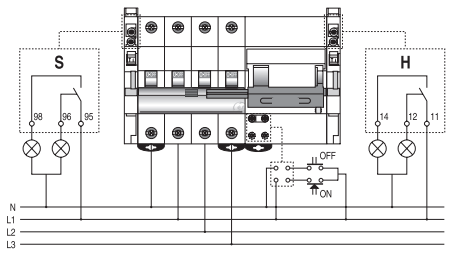
Rated voltage AC Un	(V)	240
Minimum voltage	(V)	200
Impulse to switch on	(ms)	50
Impulse to switch off	(ms)	50
Closing time	(s)	0.5
Opening time	(s)	0.2
Electrical endurance		10000
Terminal capacity flexible/rigid cable	(mm^2)	2.5
Weight	(g)	380

Tele MP - Motor operator

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



Application example



Shunt trip, Undervoltage release, Panel board switch

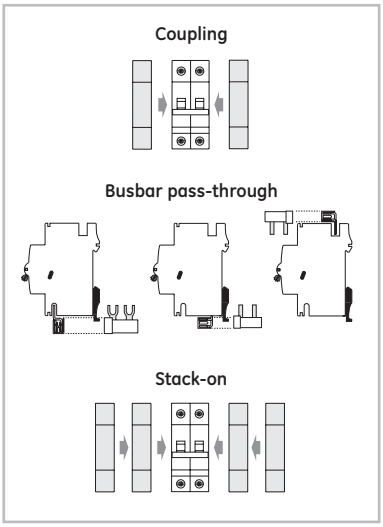
- Common device for all modular protection devices.
- Can be coupled on both sides of MCB's, on the right side of RCCB's and RCBO's.
- Permit the pass-through of busbars, pin & fork, at top or bottom terminals.
- Stack-on left and right side up to 4 modules.

Applications

Approvals

EN/IEC 60947-2 (1)

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



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

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

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

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

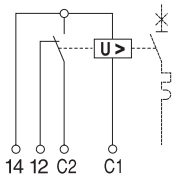
Panel Board Switch PBS

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

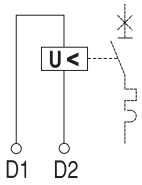
Tele L - Shunt trip

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



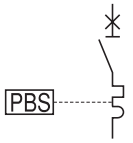
Tele U - Undervoltage release

	Voltage	Cat. No.	Ref. No.	Pack.
1P 1 mod.	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

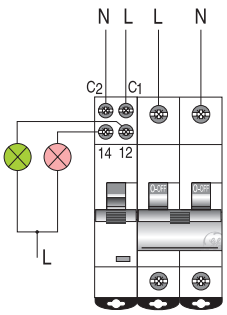


PBS - Panel board switch

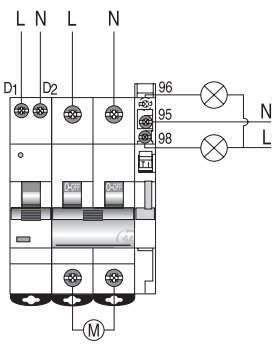
	Cat. No.	Ref. No.	Pack.
1P 1/2 mod.	PBS	672572	1

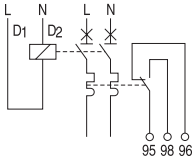


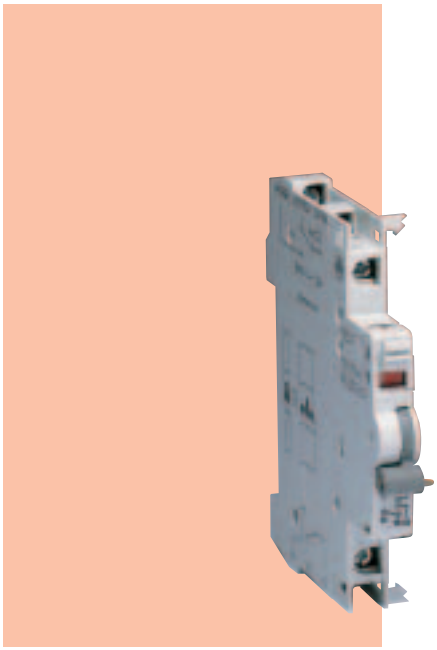
Tele L



Tele U

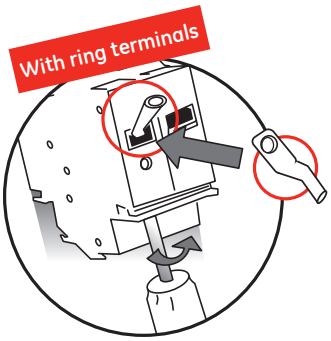






Auxiliary contacts

Series CBT



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

Features

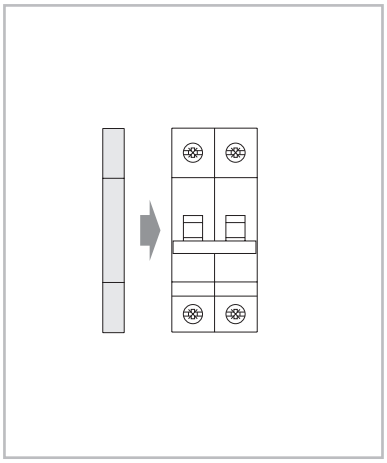
- Three versions: 1NO+1NF, 2NF, 2 NO
- CBT accepts ring terminals on wires
- Certified acc. new CEI UNI 11170 (higher protection against fires)
- Certified acc. to NF 16-101, smoke index F1
- Shock and vibrations tests acc. to IEC 61373

Standards / Marking

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

Approval

Trenitalia n° 371441.01



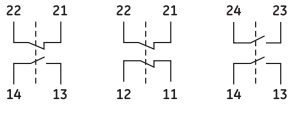
Technical data

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^2)	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

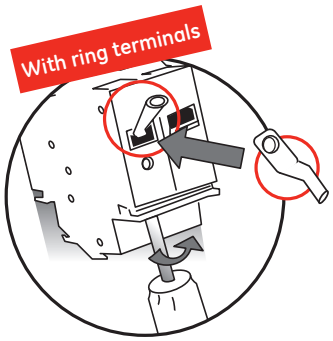
Series CBT



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

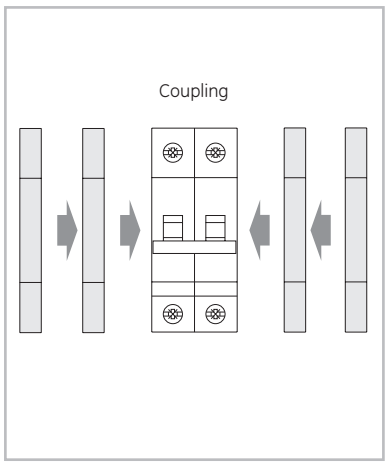
Rated voltage	(V)	110/415~110/128/150 ⎓
	(V)	24/60~24/48 ⎓
Tripping time	(ms)	<10
Electrical endurance		10.000
Terminal capacity flexible/rigid cable	(mm^2)	2.5
Unloosable screws		Pozidrive 2
U_{min}	(V)	0,70 x Un
U_{max}	(V)	1.25 x Un

Standards / Marking

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

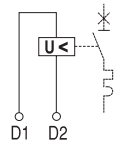
Approval

Trenitalia n° 371441.01



More technical data website
Dimensions pg C.12

Tele LT

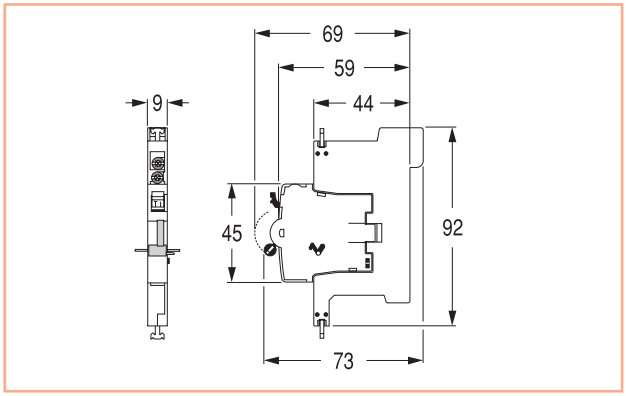


1/2 mod.

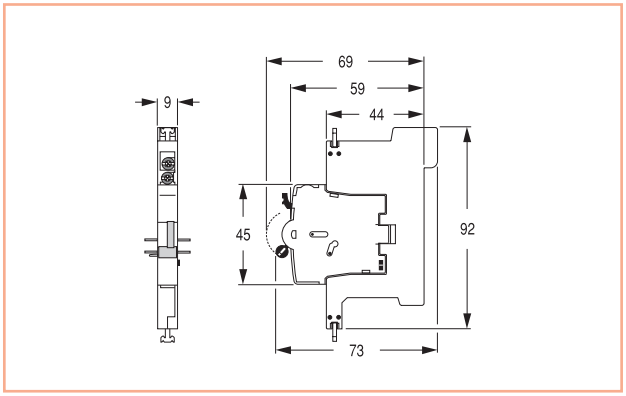
Voltage	Cat. No.	Ref. .No.	Pack.
CA 110/415 V ~ CC 110/128/150 V =	TELE LT-1	**667252**	1
CA 24/60 V ~ CC 24/48 V =	TELE LT-2	**667253**	1

Dimensional drawings

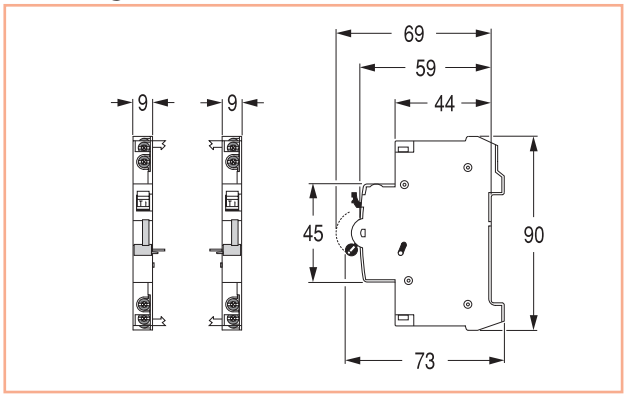
Auxiliary - Series CA



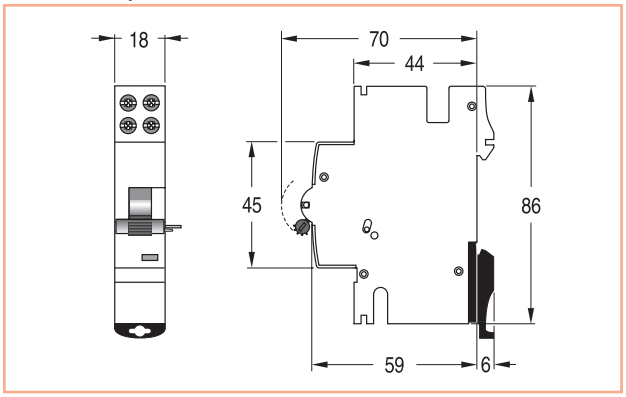
Auxiliary interface - Series CA - Unibis™



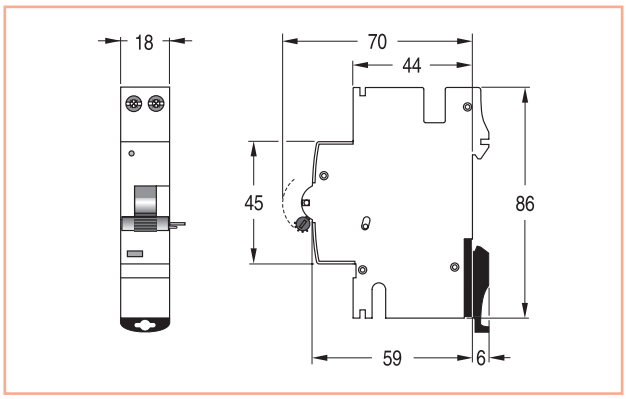
Auxiliary - Series CB / CBT



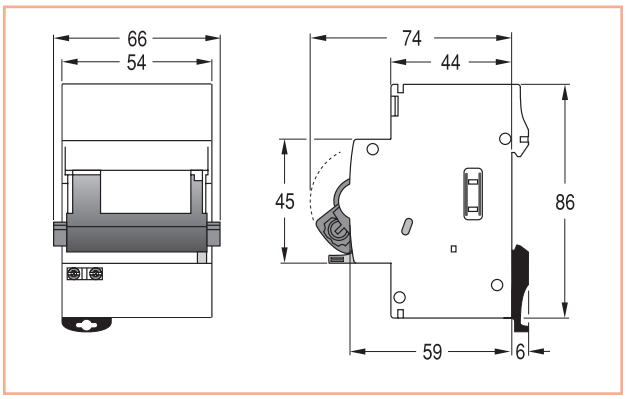
Shunt Trip - Tele L / Tele LT



Undervoltage Release - Tele U



Motor operator - Tele MP



Panel board switch - PBS