

New

TeleREC

TeleREC 2 / TeleREC Top / TeleREC Plus

Automatic reclosing system for demanding applications



GE imagination at work

TOP

2 Advantages and benefits

RANGE OVERVIEW

4 TeleREC 2 - RCCBs

6 TeleREC 2 - 2P RCBOs

8 TeleREC Top

10 TeleREC Plus

11 Dimensions

12 Numerical index

Automatic reclosing system for demanding applications



TeleREC 2

Double clips to the DIN-rail

Strong fixation to the DIN-rail throughout
Two clips for 2P and 4P version.

Interlock

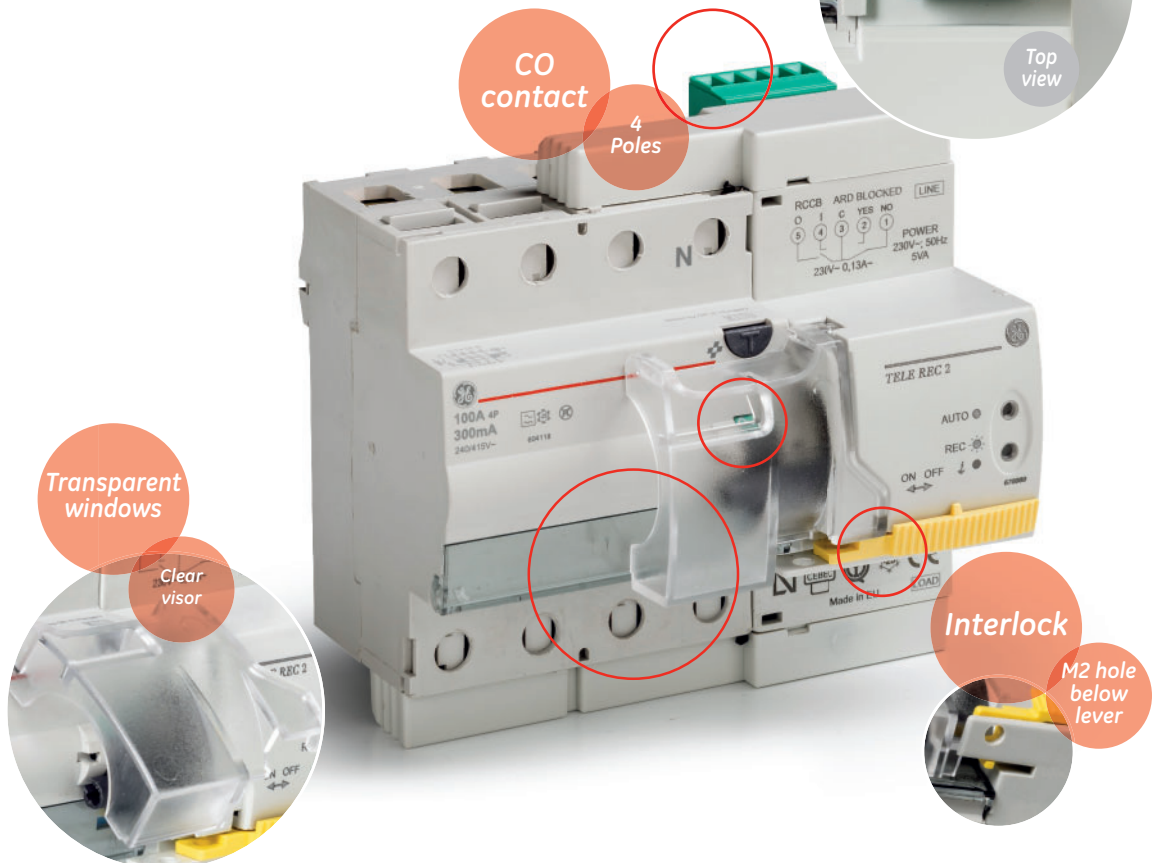
M2 hole to attach a seal or packlock to block access to the RCCB or RCBO in case of works downstream.

4 Poles version

Changeover contact in 4P RCCB version to indicate the TeleREC 2 status remotely.

Transparent windows

Transparent windows covering the RCCB following EN 50557 and with a visor to identify the RCCB or RCBO properly.



user friendly

TeleREC Top

Monitored control

Complete screen, buttons and LEDs to program and visualize the state of the reclosing system.

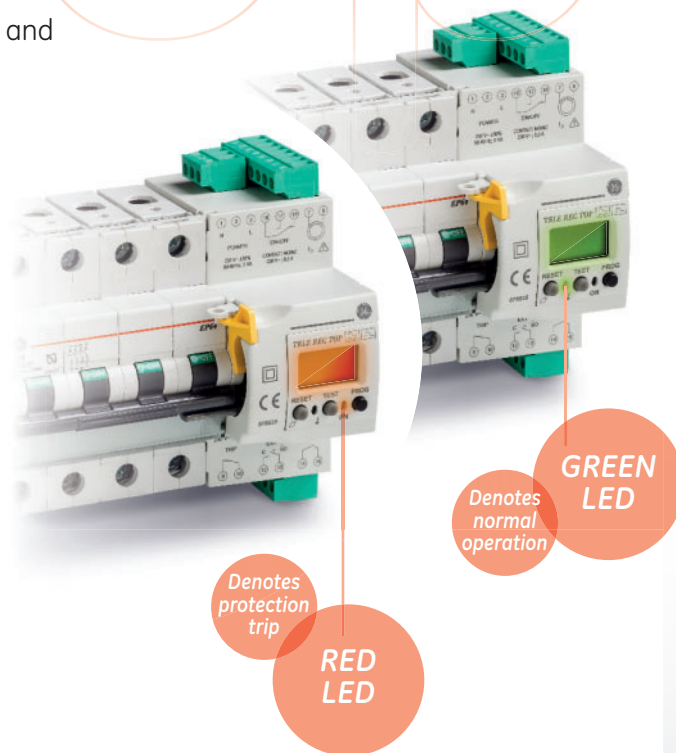
Remote indicators

AUX and TRIP status outputs (voltage-free contacts).

The AUX output is a NO contact, which closes when the auxiliary power supply is connected.

The TRIP output is an alarm output.

The EXT input (not insulated) enables the switch to be controlled remotely.



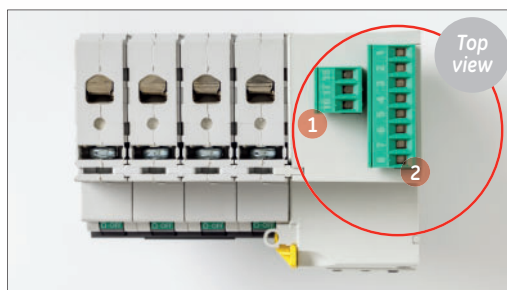
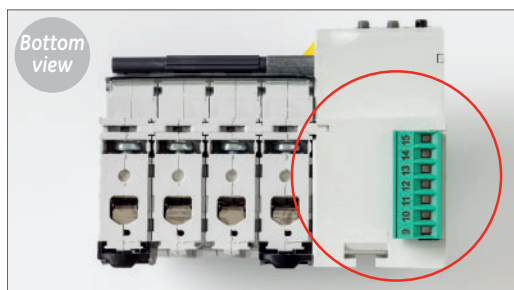
Remote indicators

1

Status outputs for the main switch.
When the switch is closed, contact 16-17 is closed.
When switch is open, contact 16-18 is closed.

2

The auxiliary power supply is connected between terminals 1-3.
The earth leakage transformer is connected between terminals 7-8.



The TeleREC Top is used to protect single and three-phase electrical installations (up to 63A), in which a high level of continuity in the electrical service must be guaranteed. The unit has an automatic rearming system which is activated following a trip, so that it reconnects itself after a certain amount of time, restoring the installations powersupply without the need for any human intervention.

In short, the protection functions performed by the TeleREC Top are:

- Earth leakage protection (protects people against electric shock).
- Protection against overloads and short-circuits via a circuit breaker switch.



Reclosing system for Residual Current Circuit Breakers

Series TeleREC 2

EN 50557:2012

Applications



Approvals / Marking



Performance

Thermal setting In	(A) 25-100
Residual current	(mA) 30, 300
Rated voltage AC Un	(V) 2P: 230 4P: 230/400
Minimum operating voltage Ub min	(V) 2P: 127 4P: 190
Mechanical/electrical endurance	20000/10000
Tropicalisation acc. to EN/IEC 60068-2	95%RH at 55°C
Terminal capacity flexible/rigid cable	(mm ²) 25/35
Poles	2, 4
Nuisance tripping resistance	(A) Type A: 250 Type Ai, S: 3000
Ambient temperature	(°C) -25 up to +55
Weight	(g) 2P: 416 4P: 598

Short-circuit capacity

Acc. to EN/IEC 61008-1

Making and breaking capacity	I _m = 500A
Residual making and breaking capacity	I _{Δm} ≥ 500A from 16 up to 40A I _{Δm} = 630A for 63A I _{Δm} = 800 A from 80A to 100A
Short-circuit capacity	I _{nc} = 10000A at 230/400V fuse 80A gG


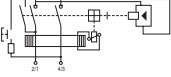

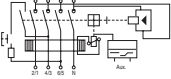
Reclosing system by insulation, M mode

RECLOSURES					
1		2		3	
Delay	Restart	Delay	Restart	Delay	Restart
< 3 sec.	10 sec.	30 sec.	30 sec.	120 sec.	60 sec.


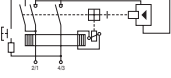

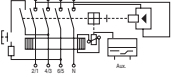
The leakage current will be supervised by measuring the resistance downstream of the tripped RCCB.




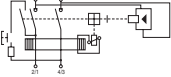

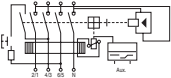
Series TeleREC 2 - RCCBs - Type A

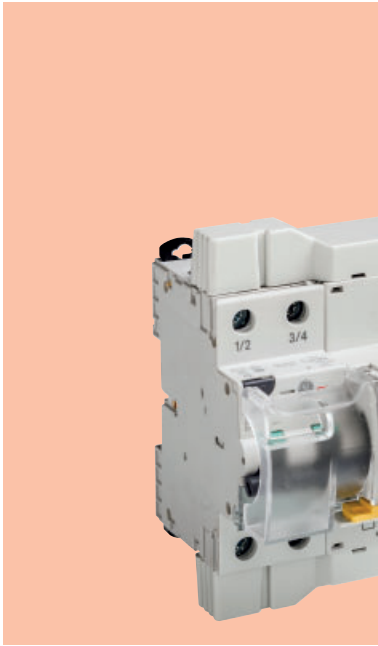
	In (A)	30 mA			300 mA		Pack
		Cat. no.	Ref. no.	Cat. no.	Ref. no.		
 	25	REC2 A 225/30	676986	REC2 A 225/300	676994	1	
	40	REC2 A 240/30	676987	REC2 A 240/300	676995	1	
	63	REC2 A 263/30	676988	REC2 A 263/300	676996	1	
	80	REC2 A 280/30	676989	REC2 A 280/300	676997	1	
	100	REC2 A 2100/30	676990	REC2 A 2100/300	676998	1	
 	25	REC2 A 425/30	677042	REC2 A 425/300	677050	1	
	40	REC2 A 440/30	677043	REC2 A 440/300	677071	1	
	63	REC2 A 463/30	677044	REC2 A 463/300	677072	1	
	80	REC2 A 480/30	677045	REC2 A 480/300	677073	1	
	100	REC2 A 4100/30	677046	REC2 A 4100/300	677074	1	

Series TeleREC 2 - RCCBs - Type Ai

	In (A)	30 mA			300 mA		Pack
		Cat. no.	Ref. no.	Cat. no.	Ref. no.		
 	25	REC2 Ai 225/30	676991	-	-	1	
	40	REC2 Ai 240/30	676992	-	-	1	
	63	REC2 Ai 263/30	676993	-	-	1	
	80	-	-	-	-	-	
	100	-	-	-	-	-	
 	25	REC2 Ai 425/30	677047	-	-	1	
	40	REC2 Ai 440/30	677048	-	-	1	
	63	REC2 Ai 463/30	677049	-	-	1	
	80	-	-	-	-	-	
	100	-	-	-	-	-	

Series TeleREC 2 - RCCBs - Type S

	In (A)	30 mA			300 mA		Pack
		Cat. no.	Ref. no.	Cat. no.	Ref. no.		
 	25	-	-	-	-	-	
	40	-	-	REC2 S 240/300	676999	1	
	63	-	-	REC2 S 263/300	677039	1	
	80	-	-	REC2 S 280/300	677040	1	
	100	-	-	REC2 S 2100/300	677041	1	
 	25	-	-	-	-	-	
	40	-	-	REC2 S 440/300	677075	1	
	63	-	-	REC2 S 463/300	677076	1	
	80	-	-	REC2 S 480/300	677077	1	
	100	-	-	REC2 S 4100/300	677098	1	



Reclosing system for 2P RCBOs - Residual Current Circuit Breakers with Overcurrent Protection

Series TeleREC 2

EN 50557:2012

Applications



Marking



Performance

Thermal setting In	(A)	10-40
Residual current	(mA)	30, 300
Tripping characteristics		B-C
Rated voltage AC Un	(V)	230
Minimum operating voltage Ub min	(V)	150
Mechanical/electrical endurance		20000/10000
Tropicalisation acc. to EN/IEC 60068-2		95%RH at 55°C
Terminal capacity flexible/rigid cable	(mm²)	25/35
Poles		2
Nuisance tripping resistance	(A)	Type A: 250 Type Ai: 3000
Ambient temperature	(°C)	-25 up to +55
Weight	(g)	346

Short-circuit capacity

Acc. to EN 61009-1

Residual Making and Breaking capacity	I Δ m=6000A
Energy limiting class	3
Short-circuit capacity	Icn=10000A at 230V

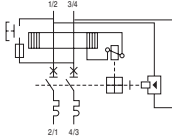
Reclosing system by insulation, M mode

RECLOSURES					
1		2		3	
Rec time	Restart	Rec time	Restart	Rec time	Restart
3	60	240	240	960	960

The leakage current will be supervised by measuring the resistance downstream of the tripped RCBO.
The ShortCircuit current will be supervised by measuring the resistance downstream of the tripped RCBO.

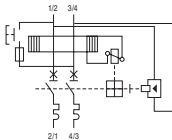


Series TeleREC 2 - RCBOs - Type A - Characteristic C



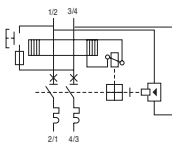
In (A)	30 mA		300 mA		Pack
	Cat. no.	Ref. no.	Cat. no.	Ref. no.	
10	REC2 DPCA100C10/030	677150	REC2 DPCA100C10/300	677156	1
16	REC2 DPCA100C16/030	677151	REC2 DPCA100C16/300	677157	1
20	REC2 DPCA100C20/030	677152	REC2 DPCA100C20/300	677158	1
25	REC2 DPCA100C25/030	677153	REC2 DPCA100C25/300	677159	1
32	REC2 DPCA100C32/030	677154	REC2 DPCA100C32/300	677160	1
40	REC2 DPCA100C40/030	677155	REC2 DPCA100C40/300	677161	1

Series TeleREC 2 - RCBOs - Type A - Characteristic B



In (A)	30 mA		300 mA		Pack
	Cat. no.	Ref. no.	Cat. no.	Ref. no.	
10	REC2 DPCA100B10/030	677174	REC2 DPCA100B10/300	677180	1
16	REC2 DPCA100B16/030	677175	REC2 DPCA100B16/300	677181	1
20	REC2 DPCA100B20/030	677176	REC2 DPCA100B20/300	677182	1
25	REC2 DPCA100B25/030	677177	REC2 DPCA100B25/300	677183	1
32	REC2 DPCA100B32/030	677178	REC2 DPCA100B32/300	677184	1
40	REC2 DPCA100B40/030	677179	REC2 DPCA100B40/300	677185	1

Series TeleREC 2 - RCBOs - Type Ai - Characteristic C



In (A)	30 mA		300 mA		Pack
	Cat. no.	Ref. no.	Cat. no.	Ref. no.	
10	REC2 DPCAI100C10/030	677162	REC2 DPCAI100C10/300	677168	1
16	REC2 DPCAI100C16/030	677163	REC2 DPCAI100C16/300	677169	1
20	REC2 DPCAI100C20/030	677164	REC2 DPCAI100C20/300	677170	1
25	REC2 DPCAI100C25/030	677165	REC2 DPCAI100C25/300	677171	1
32	REC2 DPCAI100C32/030	677166	REC2 DPCAI100C32/300	677172	1
40	REC2 DPCAI100C40/030	677167	REC2 DPCAI100C40/300	677173	1

Available second half of 2014.



Reclosing system with earth leakage protection for Miniature Circuit Breakers

Series TeleREC Top - MCBs



Applications



Marking



Performance

Thermal setting In	(A) 6-63
Residual current	adjustable 30mA ... 1A
Tripping characteristics	B-C
Rated voltage AC Un	(V) 230/400
Minimum operating voltage Ub min	(V) 12
Selectivity class	3
Mechanical/electrical endurance	20000/10000
Tropicalisation acc. to EN/IEC 60068-2	95%RH at 55°C
Terminal capacity flexible/rigid cable	(mm ²) 25/35
Poles	2, 4
Nuisance tripping resistance	(A) Type A: 378
Ambient temperature	(°C) -10 up to +50
Weight	(g) 2P: 516 4P: 769

Short-circuit capacity

AC acc. to EN/IEC 60898-1

Poles	V	Icn/Ics (kA)
2-4	230/400	10

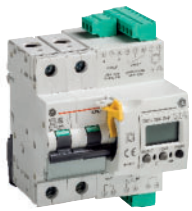
AC acc. to EN/IEC 60947-2

Poles	V	Icu (kA)(1)
2	127	40
	230	30
4	415	15
	240	30
	415	15

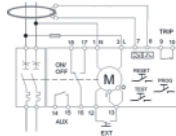
Reclosing system

Configuration of the reclosing system after a trip caused by overcurrent or short-circuit fault: maximum number of reclose attempts (NR), the timer (ST) and the resetting time of the partial meter (TR) can be configured. See manual configuration of the reclosing system following a trip caused by an earth leakage: maximum number of reclose attempts (NR), the timer (ST) and the resetting time of the partial meter (TR) can be configured. See manual.

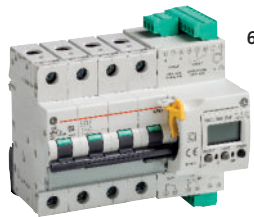
Series TeleREC Top - MCBs - Characteristic C



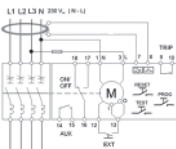
2P
4,5 mod.



In (A)	Cat. no.	Ref. no.	Pack
6	-	-	-
10	REC TOP EP102 C10	677186	1
16	REC TOP EP102 C16	677187	1
20	REC TOP EP102 C20	677188	1
25	REC TOP EP102 C25	677189	1
32	REC TOP EP102 C32	677190	1
40	REC TOP EP102 C40	677191	1
50	REC TOP EP102 C50	677192	1
63	REC TOP EP102 C63	677193	1



4P
6,5 mod.

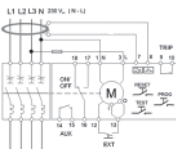


6	-	-	-
10	REC TOP EP104 C10	678028	1
16	REC TOP EP104 C16	678029	1
20	REC TOP EP104 C20	678030	1
25	REC TOP EP104 C25	678031	1
32	REC TOP EP104 C32	678032	1
40	REC TOP EP104 C40	678033	1
50	REC TOP EP104 C50	678034	1
63	REC TOP EP104 C63	678035	1

Series TeleREC Top - MCBs - Characteristic B



4P
6,5 mod.



In (A)	Cat. no.	Ref. no.	Pack
6	-	-	-
10	REC TOP EP104 B10	677194	1
16	REC TOP EP104 B16	677195	1
20	REC TOP EP104 B20	677196	1
25	REC TOP EP104 B25	677197	1
32	REC TOP EP104 B32	677198	1
40	REC TOP EP104 B40	677199	1
50	REC TOP EP104 B50	678026	1
63	REC TOP EP104 B63	678027	1

Accessories

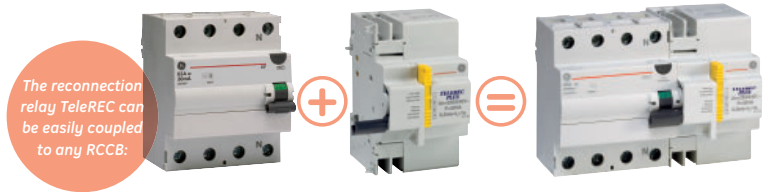


Ø	Cat. no.	Ref. no.	Pack
Toroidal transformer for earth leakage detection			
25 mm ²	REC TOP TT 25	678036	1
35 mm ²	REC TOP TT 35	678037	1



Reclosing system for Residual Current Circuit Breakers

Series TeleREC Plus - for industrial applications



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

Applications



Marking

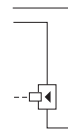


Performance

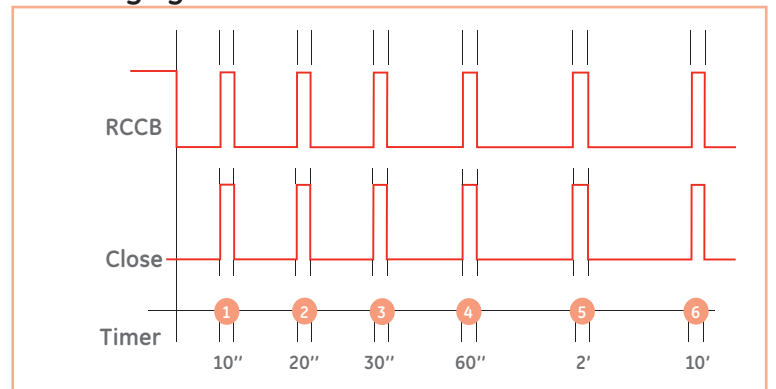
Rated voltage AC Un	(V) 220/400
Frequency	(Hz) 50/60
Reclosing numbers	6
Reclosing cycles	(sec) 10, 20, 30, 60, 120, 600
Auxiliary contact	I _{max} 2A (250Vac or 24Vdc)
I _{min} (auxiliary contact)	(mA) 20
Remote control	Manual reclosing with push-button
Weight	(g) 358

Series TeleREC Plus

	Cat. no.	Ref. no.	Pack
3 mod.	Tele REC PLUS Motor	677132	1



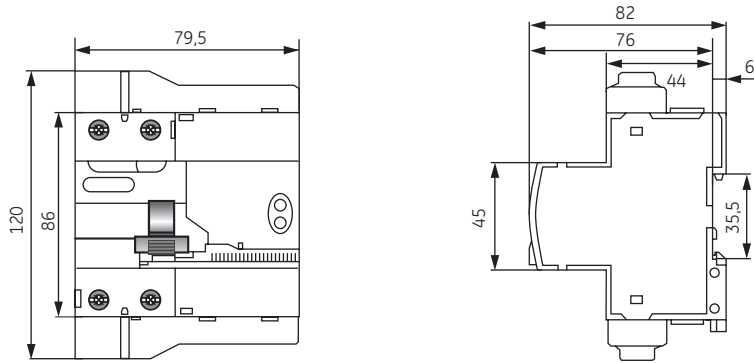
Reclosing cycles



Dimensions

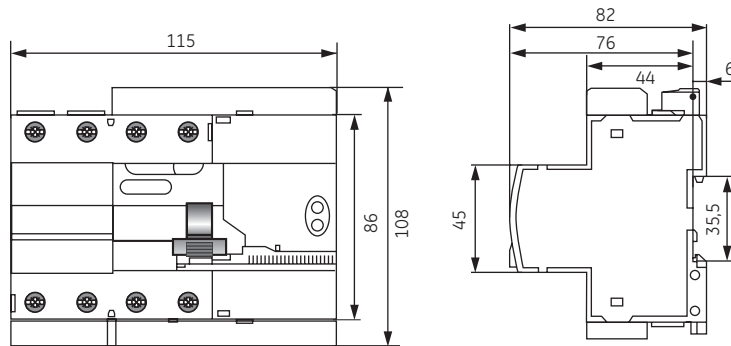
TeleREC 2 RCCB

2P RCCB / RCBO



TeleREC 2 RCBO

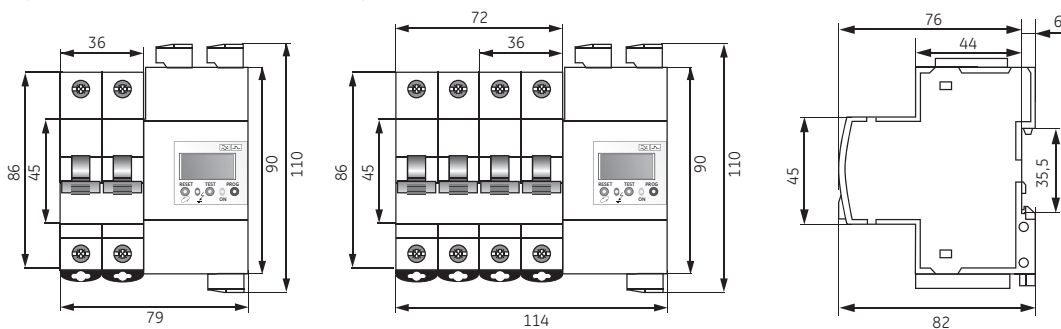
4P RCBO



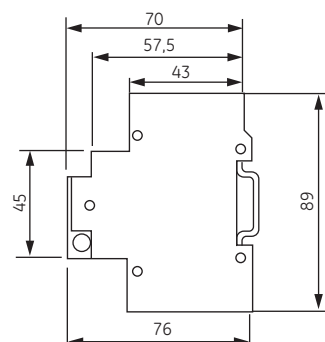
TeleREC Top MCB

4,5 mod.

6,5 mod.



TeleREC Plus



By reference number

Ref. No.	Cat. No.	Page
676000		
676986	REC2 A 225/30	5
676987	REC2 A 240/30	5
676988	REC2 A 263/30	5
676989	REC2 A 280/30	5
676990	REC2 A 2100/30	5
676991	REC2 Ai 225/30	5
676992	REC2 Ai 240/30	5
676993	REC2 Ai 263/30	5
676994	REC2 A 225/300	5
676995	REC2 A 240/300	5
676996	REC2 A 263/300	5
676997	REC2 A 280/300	5
676998	REC2 A 2100/300	5
676999	REC2 S 240/300	5
677000		
677039	REC2 S 263/300	5
677040	REC2 S 280/300	5
677041	REC2 S 2100/300	5
677042	REC2 A 425/30	5
677043	REC2 A 440/30	5
677044	REC2 A 463/30	5
677045	REC2 A 480/30	5
677046	REC2 A 4100/30	5
677047	REC2 Ai 425/30	5
677048	REC2 Ai 440/30	5
677049	REC2 Ai 463/30	5
677050	REC2 A 425/300	5
677071	REC2 A 440/300	5
677072	REC2 A 463/300	5
677073	REC2 A 480/300	5
677074	REC2 A 4100/300	5
677075	REC2 S 440/300	5
677076	REC2 S 463/300	5
677077	REC2 S 480/300	5
677098	REC2 S 4100/300	5
677132	Tele REC PLUS Motor	10
677150	REC2 DPCA100C10/030	7
677151	REC2 DPCA100C16/030	7
677152	REC2 DPCA100C20/030	7
677153	REC2 DPCA100C25/030	7
677154	REC2 DPCA100C32/030	7
677155	REC2 DPCA100C40/030	7
677156	REC2 DPCA100C10/300	7
677157	REC2 DPCA100C16/300	7
677158	REC2 DPCA100C20/300	7
677159	REC2 DPCA100C25/300	7
677160	REC2 DPCA100C32/300	7
677161	REC2 DPCA100C40/300	7
677162	REC2 DPCA100C10/030	7
677163	REC2 DPCA100C16/030	7
677164	REC2 DPCA100C20/030	7
677165	REC2 DPCA100C25/030	7
677166	REC2 DPCA100C32/030	7
677167	REC2 DPCA100C40/030	7
677168	REC2 DPCA100C10/300	7
677169	REC2 DPCA100C16/300	7
677170	REC2 DPCA100C20/300	7
677171	REC2 DPCA100C25/300	7
677172	REC2 DPCA100C32/300	7
677173	REC2 DPCA100C40/300	7
677174	REC2 DPCA100B10/030	7
677175	REC2 DPCA100B16/030	7
677176	REC2 DPCA100B20/030	7
677177	REC2 DPCA100B25/030	7
677178	REC2 DPCA100B32/030	7
677179	REC2 DPCA100B40/030	7
677180	REC2 DPCA100B10/300	7
677181	REC2 DPCA100B16/300	7
677182	REC2 DPCA100B20/300	7
677183	REC2 DPCA100B25/300	7
677184	REC2 DPCA100B32/300	7
677185	REC2 DPCA100B40/300	7
677186	REC TOP EP102 C10	9
677187	REC TOP EP102 C16	9
677188	REC TOP EP102 C20	9
677189	REC TOP EP102 C25	9
677190	REC TOP EP102 C32	9
677191	REC TOP EP102 C40	9
677192	REC TOP EP102 C50	9
677193	REC TOP EP102 C63	9

By catalogue number

Ref. No.	Cat. No.	Page
677194	REC TOP EP104 B10	9
677195	REC TOP EP104 B16	9
677196	REC TOP EP104 B20	9
677197	REC TOP EP104 B25	9
677198	REC TOP EP104 B32	9
677199	REC TOP EP104 B40	9
678000		
678026	REC TOP EP104 B50	9
678027	REC TOP EP104 B63	9
678028	REC TOP EP104 C10	9
678029	REC TOP EP104 C16	9
678030	REC TOP EP104 C20	9
678031	REC TOP EP104 C25	9
678032	REC TOP EP104 C32	9
678033	REC TOP EP104 C40	9
678034	REC TOP EP104 C50	9
678035	REC TOP EP104 C63	9
678036	REC TOP TT 25	9
678037	REC TOP TT 35	9

Cat. No.	Ref. No.	Page
R...		
REC2 A 225/30	676986	5
REC2 A 240/30	676987	5
REC2 A 263/30	676988	5
REC2 A 280/30	676989	5
REC2 A 2100/30	676990	5
REC2 A 425/30	677042	5
REC2 A 440/30	677043	5
REC2 A 463/30	677044	5
REC2 A 480/30	677045	5
REC2 A 4100/30	677046	5
REC2 Ai 225/30	676991	5
REC2 Ai 240/30	676992	5
REC2 Ai 263/30	676993	5
REC2 Ai 425/30	677047	5
REC2 Ai 440/30	677048	5
REC2 Ai 463/30	677049	5
REC2 S 240/300	676999	5
REC2 S 263/300	677039	5
REC2 S 280/300	677040	5
REC2 S 2100/300	677041	5
REC2 S 440/300	677075	5
REC2 S 463/300	677076	5
REC2 S 480/300	677077	5
REC2 S 4100/300	677098	5
REC2 A 225/300	676994	5
REC2 A 240/300	676995	5
REC2 A 263/300	676996	5
REC2 A 280/300	676997	5
REC2 A 2100/300	676998	5
REC2 A 425/300	677050	5
REC2 A 440/300	677071	5
REC2 A 463/300	677072	5
REC2 A 480/300	677073	5
REC2 A 4100/300	677074	5
REC2 DPCA100C10/030	677150	7
REC2 DPCA100C16/030	677151	7
REC2 DPCA100C20/030	677152	7
REC2 DPCA100C25/030	677153	7
REC2 DPCA100C32/030	677154	7
REC2 DPCA100C40/030	677155	7
REC2 DPCA100B10/030	677174	7
REC2 DPCA100B16/030	677175	7
REC2 DPCA100B20/030	677176	7
REC2 DPCA100B25/030	677177	7
REC2 DPCA100B32/030	677178	7
REC2 DPCA100B40/030	677179	7
REC2 DPCA100C10/030	677162	7
REC2 DPCA100C16/030	677163	7
REC2 DPCA100C20/030	677164	7
REC2 DPCA100C25/030	677165	7
REC2 DPCA100C32/030	677166	7
REC2 DPCA100C40/030	677167	7
REC2 DPCA100C10/300	677156	7
REC2 DPCA100C16/300	677157	7
REC2 DPCA100C20/300	677158	7
REC2 DPCA100C25/300	677159	7
REC2 DPCA100C32/300	677160	7
REC2 DPCA100C40/300	677161	7
REC2 DPCA100B10/300	677180	7
REC2 DPCA100B16/300	677181	7
REC2 DPCA100B20/300	677182	7
REC2 DPCA100B25/300	677183	7
REC2 DPCA100B32/300	677184	7
REC2 DPCA100B40/300	677185	7
REC2 DPCA100C10/300	677168	7
REC2 DPCA100C16/300	677169	7
REC2 DPCA100C20/300	677170	7
REC2 DPCA100C25/300	677171	7
REC2 DPCA100C32/300	677172	7
REC2 DPCA100C40/300	677173	7
REC TOP EP102 C10	677186	9
REC TOP EP102 C16	677187	9
REC TOP EP102 C20	677188	9
REC TOP EP102 C25	677189	9
REC TOP EP102 C32	677190	9
REC TOP EP102 C40	677191	9
REC TOP EP102 C50	677192	9
REC TOP EP102 C63	677193	9
REC TOP EP104 C10	678028	9
REC TOP EP104 C16	678029	9

Cat. No.	Ref. No.	Page
REC TOP EP104 C20	678030	9
REC TOP EP104 C25	678031	9
REC TOP EP104 C32	678032	9
REC TOP EP104 C40	678033	9
REC TOP EP104 C50	678034	9
REC TOP EP104 C63	678035	9
REC TOP EP104 B10	677194	9
REC TOP EP104 B16	677195	9
REC TOP EP104 B20	677196	9
REC TOP EP104 B25	677197	9
REC TOP EP104 B32	677198	9
REC TOP EP104 B40	677199	9
REC TOP EP104 B50	678026	9
REC TOP EP104 B63	678027	9
REC TOP TT 25	678036	9
REC TOP TT 35	678037	9
T...		
Tele REC PLUS Motor	677132	10

The policy of GE is one of continuous improvement. The right is reserved to alter the design or any structural details of the products at any time without giving notice.

April 2014
GE Industrial Solutions

