

90 ReStart range

Automatic reclosing devices



The 90 ReStart range is made up of a wide range automatic reclosing devices which reset the coupled circuit breaker in total safety, therefore ideal for all domestic, commercial and industrial applications.




The main features are:

- System check before the automatic reclosing.
- The Autotest versions test working condition of the residual current device without interrupting the power supply from the electrical system.
- PRO and TOP versions for professional applications.

ReSTART WITH AUTOTEST

SELECTION TABLES

Automatic reclosing devices with circuit safety check and automatic test.





	COUPLED VERSIONS WITH RCCB'S			
	2 poles		4 poles	
	5 mod.		7 mod.	
				
	IΔn = 30 mA		IΔn = 30 mA	IΔn = 300 mA
In (A)	A[IR] type	A[IR] - PRO type	A[IR] - PRO type	
25	GW 90 901 N	GW 90 911	GW 90 921	GW 90 927
40	GW 90 902 N	GW 90 912	GW 90 922	GW 90 928
63	-	GW 90 913	GW 90 923	GW 90 929

NOTE: ARD must be supplied with 230 V AC phase-neutral for working.





ReSTART Rd

SELECTION TABLES

Automatic reclosing devices with circuit safety check.

COUPLED VERSIONS WITH RCCB'S SD												
2 poles			2 poles - PRO version						4 poles - PRO version			
4 mod.			4 mod.						6 mod.		7 mod.	
												
IΔn = 30 mA			IΔn = 30 mA		IΔn = 100 mA	IΔn = 300 mA		IΔn = 500 mA	IΔn = 30 mA		IΔn = 30 mA	
In (A)	A type	A[IR] type	A type	A[IR] type	A type	A type	A[S] type	A type	AC type	A type	AC type	A type
25	GW 94 817 R	GW 95 651 R	GW 94 817 P	GW 95 651 P	-	GW 94 819 P	-	-	GW 94 662 P	GW 94 867 P	-	-
40	GW 94 827 R	GW 95 656 R	GW 94 827 P	GW 95 656 P	GW 94 828 P	GW 94 829 P	GW 94 924 P	GW 94 830 P	GW 94 667 P	GW 94 897 P	-	-
63	GW 94 837 R	GW 95 661 R	GW 94 837 P	GW 95 661 P	GW 94 838 P	GW 94 839 P	GW 94 934 P	GW 94 840 P	-	-	GW 94 757 P	GW 94 937 P
80	-	-	GW 94 847 P	-	GW 94 848 P	GW 94 849 P	GW 94 944 P	-	-	-	-	-

NOTE: ARD must be supplied with 230 V AC phase-neutral for working.

		VERSIONS TO BE COUPLED WITH RCCB'S SD 4 POLES - PRO VERSION							
									
		GW 90 966		GW 90 968					
		3 mod.		3 mod.					
		+		+					
		RCCB'S SD 4 POLES							
									
		IΔn = 30 mA		IΔn = 100 mA		IΔn = 300 mA		IΔn = 500 mA	
In (A)	Type	3 mod.	4 mod.	3 mod.	4 mod.	3 mod.	4 mod.	3 mod.	4 mod.
25	AC	GW 94 662	GW 94 697 GW 94 637 *	-	GW 94 698	GW 94 664	GW 94 699 GW 94 639 *	-	-
	A	GW 94 867	GW 94 877 GW 94 552 *	-	GW 94 878	GW 94 869	GW 94 879 GW 94 554 *	-	-
	A[IR]	-	GW 95 676	-	-	-	GW 95 678	-	-
40	AC	GW 94 667	GW 94 707 GW 94 647 *	GW 94 668	GW 94 708	GW 94 669	GW 94 709 GW 94 649 *	GW 94 670	GW 94 710
	A	GW 94 897	GW 94 927 GW 94 557 *	GW 94 898	GW 94 928	GW 94 899	GW 94 929 GW 94 559 *	GW 94 900	GW 94 930
	A[IR]	-	GW 95 681	-	-	-	GW 95 683	-	-
	A[S]	-	-	-	-	-	GW 94 966	-	-
63	AC	-	GW 94 757 GW 94 717 *	-	GW 94 758	-	GW 94 759 GW 94 719 *	-	GW 94 760
	A	-	GW 94 937 GW 94 907 *	-	GW 94 938	-	GW 94 939 GW 94 909 *	-	GW 94 940
	A[IR]	-	GW 95 686	-	-	-	GW 95 688	-	-
	A[S]	-	-	-	-	-	GW 94 976	-	-
80	AC	-	GW 94 761 GW 94 727 *	-	GW 94 771	-	GW 94 766 GW 94 728 *	-	-
	A	-	GW 94 947	-	GW 94 948	-	GW 94 949	-	-
	A[IR]	-	-	-	-	-	GW 94 986	-	-
100	AC	-	GW 94 777 GW 94 737 *	-	GW 94 778	-	GW 94 779 GW 94 739 *	-	GW 94 780
	A	-	GW 94 957	-	GW 94 958	-	GW 94 959	-	GW 94 960
	A[IR]	-	GW 95 696	-	-	-	GW 95 698	-	-
	A[S]	-	-	-	-	-	GW 94 996	-	-



NOTE: they are also compatible with RCCB's 2 poles (SD 2P). ARD must be supplied with 230 V AC phase-neutral for working.

* RCCB with Neutral on the left.





ReSTART RM

SELECTION TABLES

Automatic reclosing devices with circuit safety and short-circuit check.

			COUPLED VERSIONS WITH RCBO'S MDC				
			2 poles		2 poles - PRO version		
			4 mod.		4 mod.		
							
			IΔn = 30 mA		IΔn = 30 mA	IΔn = 300 mA	
Icn (A)	Curve	In (A)	A type	A[IR] type	A type	A type	A[S] type
4500	C	6	GW 94 225 R	-	-	-	-
		10	GW 94 226 R	-	-	-	-
		13	GW 94 231 R	-	-	-	-
		16	GW 94 227 R	-	-	-	-
		20	GW 94 228 R	-	-	-	-
		25	GW 94 229 R	-	-	-	-
		32	GW 94 230 R	-	-	-	-
6000	C	6	GW 94 325 R	GW 95 805 R	GW 94 325 P	GW 94 335 P	-
		10	GW 94 326 R	GW 95 806 R	GW 94 326 P	GW 94 336 P	-
		13	GW 94 331 R	GW 95 811 R	GW 94 331 P	-	-
		16	GW 94 327 R	GW 95 807 R	GW 94 327 P	GW 94 337 P	GW 95 847 P
		20	GW 94 328 R	GW 95 808 R	GW 94 328 P	GW 94 338 P	GW 95 848 P
		25	GW 94 329 R	GW 95 809 R	GW 94 329 P	GW 94 339 P	GW 95 849 P
		32	GW 94 330 R	GW 95 810 R	GW 94 330 P	GW 94 340 P	GW 95 850 P

NOTE: ARD must be supplied with 230 V AC phase-neutral for working.

			VERSIONS TO BE COUPLED WITH RCBO'S MDC 4 POLES - PRO VERSION					
								
			GW 90 986			GW 90 988		
			3 mod.			3 mod.		
			+			+		
			RCBO'S MDC 4P					
			4 mod.			4 mod.		
								
			IΔn = 30 mA			IΔn = 300 mA		
			Icn (A)	Curve	In (A)	AC type	A type	A[IR] type
4500	C	6	GW 94 065	GW 94 265	-	GW 94 075	GW 94 275	-
		10	GW 94 066	GW 94 266	-	GW 94 076	GW 94 276	-
		13	GW 94 071	GW 94 271	-	-	-	-
		16	GW 94 067	GW 94 267	-	GW 94 077	GW 94 277	-
		20	GW 94 068	GW 94 268	-	GW 94 078	GW 94 278	-
		25	GW 94 069	GW 94 269	-	GW 94 079	GW 94 279	-
		32	GW 94 070	GW 94 270	-	GW 94 080	GW 94 280	-
6000	C	6	GW 94 165	GW 94 365	GW 95 815	GW 94 175	GW 94 375	-
		10	GW 94 166	GW 94 366	GW 95 816	GW 94 176	GW 94 376	-
		13	GW 94 171	GW 94 371	GW 95 821	-	-	-
		16	GW 94 167	GW 94 367	GW 95 817	GW 94 177	GW 94 377	GW 95 857
		20	GW 94 168	GW 94 368	GW 95 818	GW 94 178	GW 94 378	GW 95 858
		25	GW 94 169	GW 94 369	GW 95 819	GW 94 179	GW 94 379	GW 95 859
		32	GW 94 170	GW 94 370	GW 95 820	GW 94 180	GW 94 380	GW 95 860
	B	6	-	GW 95 165	-	-	GW 95 175	-
		10	-	GW 95 166	-	-	GW 95 176	-
		13	-	GW 95 171	-	-	-	-
		16	-	GW 95 167	-	-	GW 95 177	-
		20	-	GW 95 168	-	-	GW 95 178	-
		25	-	GW 95 169	-	-	GW 95 179	-
		32	-	GW 95 170	-	-	GW 95 180	-




NOTE: they are also compatible with RCBO's 1P+N and 2 poles (MDC 1P+N e 2P).

ARD must be supplied with 230 V AC phase-neutral for working.

ReSTART Rm TOP

SELECTION TABLES




Automatic reclosing device with/without circuit safety and/or short circuit check.

		VERSION TO BE COUPLED WITH MCB'S AND ADD-ON RCD'S 4 POLES					
							
		GW 90 893					
		4 mod.					
		+					
		MCB'S MT 4 POLES					
		4 mod.					
							
		Curve	In (A)	Icn = 6000 A	Icn = 10000 A	Icn = 25000 A	
		C	1	GW 92 081	-	-	
			2	GW 92 082	-	-	
			3	GW 92 083	-	-	
			4	GW 92 084	-	-	
			6	GW 92 085	GW 92 685	GW 92 885	
10	GW 92 086		GW 92 686	GW 92 886			
13	GW 92 094		GW 92 694	-			
16	GW 92 087		GW 92 687	GW 92 887			
20	GW 92 088		GW 92 688	GW 92 888			
25	GW 92 089		GW 92 689	GW 92 889			
32	GW 92 090		GW 92 690	GW 92 890			
40	GW 92 091		GW 92 691	GW 92 891			
B	50	GW 92 092	GW 92 692	GW 92 892			
	63	GW 92 093	GW 92 693	GW 92 893			
	6	GW 92 285	GW 92 585	-			
	10	GW 92 286	GW 92 586	-			
	13	GW 92 294	GW 92 587	-			
	16	GW 92 287	GW 92 588	-			
	20	GW 92 288	GW 92 589	-			
	25	GW 92 289	GW 92 590	-			
D	32	GW 92 290	GW 92 591	-			
	40	GW 92 291	GW 92 592	-			
	50	GW 92 292	GW 92 593	-			
	63	GW 92 293	GW 92 594	-			
	1	-	GW 92 781	-			
	2	-	GW 92 782	-			
	3	-	GW 92 783	-			
	4	-	GW 92 784	-			
	6	GW 92 485	GW 92 785	-			
	10	GW 92 486	GW 92 786	-			
	13	GW 92 494	GW 92 794	-			
	16	GW 92 487	GW 92 787	-			
20	GW 92 488	GW 92 788	-				
25	GW 92 489	GW 92 789	-				
32	GW 92 490	GW 92 790	-				
40	GW 92 491	GW 92 791	-				
		+					
		ADD-ON RESIDUAL CURRENT DEVICES BD 4 POLES					
		3,5 mod.					
							
		In (A)	IΔn (mA)	AC type	A type	A[IR] type	A[S] type
		≤25	30	GW 94 422	GW 94 522	-	-
300	GW 94 423		GW 94 523	-	-		
500	GW 94 424		GW 94 524	-	-		
≤63	30	GW 94 432	GW 94 532	GW 94 586	-		
	300	GW 94 433	GW 94 533	-	GW 94 583		
	500	GW 94 434	GW 94 534	-	-		
	1000	-	-	-	GW 94 585		

NOTE: they are also compatible with MCB's MTC, RCBO's MDC, MCB's MT and with Add-on RCD's BD 1P+N, 2 e 3 poles.
ARD must be supplied with 230 V AC phase-neutral for working.

ReSTART WITH AUTOTEST

TECHNICAL DATA

TYPE		ReSTART WITH AUTOTEST 2P	ReSTART WITH AUTOTEST PRO 2P	ReSTART WITH AUTOTEST PRO 4P
				
Electrical characteristics				
Standards:		EN 50557, EN 61008-1		
Distribution system:		TT - TN		
Rated operational voltage (U _e):	(V)	230 AC ⁽¹⁾		400 AC
Minimum operating voltage (min U _e):	(V)	85% U _e		
Maximum operating voltage (max U _e):	(V)	110% U _e		
Rated insulation voltage (U _i):	(V)	500		
Dielectric strength test voltage between pole and earth:	(V)	2500 AC for 1 minute		
Rated impulse withstand voltage (U _{imp}):	(kV)	4		
Rated frequency:	(Hz)	50		
Residual making and breaking capacity (I _{Δn}):	(A)	630		
Rated conditional residual short-circuit current with fuse (I _{Δc}):	(A)	10000 (gL 80A)		
Number of poles:		2		4
Type of associated residual current circuit breaker:		A[IR]		
Rated current (I _n):	(A)	25 - 40	25 - 40 - 63	
Rated residual operating current (I _{Δn}):	(mA)	30		30 - 300
Rated non-operating resistance between live parts and earth (R _{do}):	(kΩ)	20	8	8 (30mA) - 2.5 (300mA)
Rated operating resistance between live parts and earth (R _d):	(kΩ)	70	16	16 (30mA) - 5 (300mA)
Power loss at I _n :	(W)	2.2 (25A) - 5.4 (40A) - 6.2 (63A)		3.5 (25A) - 6 (40A) - 12 (63A)
Off-load absorbed power:	(VA)	4 (cosφ=0)		
Power absorbed during automatic reclosing:	(VA)	49 (cosφ=0,55)		
Reclosing control:		automatic		
Power supply:		from above		
Mechanical characteristics				
Width in DIN modules:		5		7
Reclosing time:	(s)	10		
Autotest cycle time:	(s)	7		
Maximum operational frequency:	(oper./h)	30		
Max mechanical endurance (total no. operations):		4000		
Maximum no. of consecutive automatic reclosure operations ⁽²⁾ :		3		
Counter reset time no. of consecutive automatic reclosure operations:	(s)	60		
Section of circuit breaker terminals:	(mm ²)	≤ 35 flexible cable - ≤ 35 rigid cable		
Rated tightening torque:	(Nm)	2		
Degree of protection:		IP20 (terminals) - IP40 (front)		
Operating temperature:	(°C)	-25 +60 ⁽³⁾		
Tropicalization:		55°C - RH 95%		
Auxiliary contact characteristics				
Type of contact:		Photomos		
Operating voltage:	(V)	5-230 AC/DC		
Maximum operating current:	(mA)	100 (cosφ=1)		
Minimum operating current:	(mA)	0.6		
Operating frequency:	(Hz)	50		
Category of use:		AC12		
Operating mode:		NO / NC / NC + impulse		
Terminal section:	(mm ²)	≤ 2.5		
Rated tightening torque:	(Nm)	0.4		
AUTOTEST function				
Regular and automatic RCCB test:		•	•	•
Light signalling for autotest cycle in progress:		•	•	•
Light signalling for any device anomaly:		•	•	•
ReSTART function				
Automatic reclosure for untimely tripping:		•	•	•
Earth leakage check:		•	•	•
Continuous system check:			•	•
Interruption of reclosure operation in the event of a fault:		•	•	•
Signalling of reclosure operation in progress:		•	•	•
Light signalling of failure:		•	•	•
Activation / exclusion of ReSTART function:		•	•	•
Auxiliary contact for remote operating status access:		•	•	•
Internal electrical protection:		PTC	PTC	PTC




⁽¹⁾ Power supply 230V phase-neutral

⁽²⁾ In the absence of a system fault

⁽³⁾ Average daily temperature ≤ +35°C

ReSTART Rd






TECHNICAL DATA

TYPE	ReSTART Rd 2P	ReSTART Rd PRO 2P	ReSTART Rd PRO 4P
			
Electrical characteristics			
Standards:	EN 50557, EN 61008-1		EN 50557
Distribution system:	TT - TN		
Rated operational voltage (Ue):	(V)	230 AC ⁽¹⁾	
Minimum operating voltage (min Ue)	(V)	85% Ue	
Maximum operating voltage (max Ue):	(V)	110% Ue	
Rated insulation voltage (Ui):	(V)	500	
Dielectric strength test voltage between pole and earth:	(V)	2500 AC for 1 minute	
Rated impulse withstand voltage (Uimp):	(kV)	4	
Rated frequency:	(Hz)	50	
Residual making and breaking capacity (IΔm):	(A)	IΔm of the associated circuit breaker	
Rated conditional residual short-circuit current with fuse (IΔc):	(A)	IΔc of the associated circuit breaker	
Number of poles:		2	4
Type of SD RCCB:		A - A[IR]	A - A[IR] - A[S]
Rated current (In):	(A)	25 - 40 - 63	25 - 40 - 63 - 80 - 100
Rated residual operating current (IΔn):	(mA)	30	30 - 300 - 500
Rated non-operating resistance between live parts and earth (Rdo):	(kΩ)	20	8 (30mA) - 2.5 (100/300/500mA)
Rated operating resistance between live parts and earth (Rd):	(kΩ)	70	16 (30mA) - 5 (100/300/500mA)
Power loss at In:	(W)	Power loss of the associated circuit breaker	
Off-load absorbed power:	(VA)	0	17 (cosφ=0)
automatic reclosing:	(VA)	18 (cosφ=0.46)	45 (cosφ=0.55)
Reclosing control:		automatic	
Mechanical characteristics			
Width in DIN modules:		2 (ARD) + 2 (RCCB)	3 (ARD)
Reclosing time:	(s)	90	10
Maximum operational frequency:	(oper./h)	15	30
Max mechanical endurance (total no. operations):		1000	4000
Maximum no. of consecutive automatic reclosure operations ⁽²⁾ :		3	
Counter reset time no. of consecutive automatic reclosure operations:	(s)	180	60
Section of circuit breaker terminals:	(mm²)	≤ 35 flexible cable ⁽³⁾ - ≤ 35 rigid cable	
Rated tightening torque:	(Nm)	2	
Degree of protection:		IP20 (terminals) - IP40 (front)	
Operating temperature:	(°C)	-5 +40	-25 +60 ⁽⁴⁾
Tropicalization:		55°C - RH 95%	
Auxiliary contact characteristics			
Type of contact:		-	Photomos
Operating voltage:	(V)	-	5-230 AC/DC
Maximum operating current:	(mA)	-	100 (cosφ=1)
Minimum operating current:	(mA)	-	0.6
Operating frequency:	(Hz)	-	50
Category of use:		-	AC12
Operating mode:		-	NO/NC/INTERMITTENT
Terminal section:	(mm²)	-	≤ 2.5
Rated tightening torque:	(Nm)	-	0,4
ReSTART function			
Automatic reclosure for untimely tripping:		•	•
Earth failure test:		•	•
Earth leakage check:		•	•
Interruption of reclosure operation in the event of a fault:		•	•
Signalling of reclosure operation in progress:		•	•
Light signalling of failure:		•	•
Activation / exclusion of ReSTART function:		•	•
Auxiliary contact for remote operating status access:		•	•
Internal electrical protection:		PTC	PTC

⁽¹⁾ Power supply 230V phase-neutral⁽²⁾ In the absence of a system fault⁽³⁾ ≤ 35mm² for 4-pole versions in 3 modules⁽⁴⁾ Average daily temperature ≤ +35°C

ReSTART RM

TECHNICAL DATA

TYPE	ReSTART RM 2P	ReSTART RM PRO 2P	ReSTART RM PRO 4P	Rm TOP	CM
					
Electrical characteristics					
Standards:	EN 50557, EN 61009-1		EN 50557	-	-
Distribution system:	TT - TN			TT - TN - IT ⁽¹⁾	TT-TN-IT
Rated operational voltage (U _e):	(V)	230 AC ⁽²⁾			
Minimum operating voltage (min U _e):	(V)	85% U _e			
Maximum operating voltage (max U _e):	(V)	110% U _e			
Rated insulation voltage (U _i):	(V)	500			
Dielectric strength test voltage between pole and earth:	(V)	2500 AC for 1 minute			
Rated impulse withstand voltage (U _{imp}):	(kV)	4			
Rated frequency:	(Hz)	50			
Residual making and breaking capacity (I _{Δm}):	(A)	I _{Δm} of the associated circuit breaker			
Number of poles:		2		4	
Type of MDC RCBO:		A - A[IR]	A - A[S]	AC - A - A[IR] - A[S]	AC - A - A[IR] - A[S]
Type of MT+BD RCBO:		-	-	-	AC - A - A[IR] - A[S]
Rated current (I _n):	(A)	from 6 to 32		from 1 to 63	
Rated residual operating current (I _{Δn}):	(mA)	30	30 - 300	30 - 300 - 500 - 1000	
Rated non-operating resistance between live parts and earth (R _{do}):	(kΩ)	20	8 (30mA) - 2.5 (300mA)	8 (30mA) - 2.5 (300/500/1000mA)	-
Rated operating resistance between live parts and earth (R _d):	(kΩ)	70	16 (30mA) - 5 (300mA)	16 (30mA) - 5 (300/500/1000mA)	-
Rated non-operating resistance between live parts (R _{cco}):	(Ω)	0.8		0.3	-
Rated operating resistance between live parts (R _{cc}):	(Ω)	1.3		1.8	-
Power loss at I _n :	(W)	Power loss of the associated circuit breaker			
Off-load absorbed power:	(VA)	0	17 (cosφ=0)	15 (cosφ=0.06)	0 (cosφ=0)
automatic reclosing:	(VA)	18 (cosφ=0.46)		30 (cosφ=0.64)	30 (cosφ=0.64)
Reclosing control:		automatic		automatic / remote ⁽³⁾	remote ⁽³⁾
Mechanical characteristics					
Width in DIN modules:		2 (ARD) + 2 (RCBO)	3 (ARD)	4 (ARD)	2 (ARD)
Reclosing time:	(s)	90	10	3 (without system test) 10 (with system test)	3
Remote control opening time:	(s)	-	-	-	2
Maximum operational frequency:	(oper/h)	15		30	
Max mechanical endurance (total no. operations):		1000	4000	10000	
Maximum no. of consecutive automatic reclosure operations ⁽⁴⁾ :			3		-
Counter reset time					
no. of consecutive automatic reclosure operations:	(s)	180		60	-
Section of circuit breaker terminals:	(mm ²)	≤ 35 flexible cable - ≤ 35 rigid cable			
Rated tightening torque:	(Nm)	2			
Degree of protection:		IP20 (terminals) - IP40 (front)			
Operating temperature:	(°C)	-5 +40		-25 +60 ⁽⁵⁾	
Tropicalization:		55°C - RH 95%			
Auxiliary contact characteristics					
Type of contact:		-	Photomos	Changeover	Photomos
Operating voltage:	(V)	-	5-230 AC/DC	230 AC / 30 DC	5-230 AC/DC
Maximum operating current:	(mA)	-	100 (cosφ=1)	1.5 AC / 0.8 DC	100 (cosφ=1)
Minimum operating current:	(mA)	-	0.6	-	0.6
Operating frequency:	(Hz)	-		50	
Category of use:		-		AC12	
Operating mode:		-	NO/NC/INTERMITTENT	CO	NO/NC/INTERMITTENT
Terminal section:	(mm ²)	-		≤ 2.5	CO
Rated tightening torque:	(Nm)	-		0,4	
ReSTART function					
Automatic reclosure for untimely tripping:		•	•	•	
Earth leakage check:		•	•	•	
Short-circuit check:		•	•	•	
Adjustable insulation threshold:				•	
Continuous system check:			•	•	
Adjustable reset standby time ⁽⁶⁾ :				•	
Adjustable reclosing mode:				•	
Interruption of reclosure operation in the event of a fault:		•	•	•	
Signalling of reclosure operation in progress:		•	•	•	
Light signalling of failure:		•	•	•	
Activation / exclusion of ReSTART function:		•	•	•	•
Auxiliary contact for remote operating status access:			•	•	
Internal electrical protection:		PTC	PTC	PTC	PTC

⁽¹⁾ For IT system reclosing without fault check ⁽²⁾ Power supply 230V phase-neutral

⁽³⁾ Impulse duration ≥ 200ms

⁽⁴⁾ In the absence of a system fault

⁽⁵⁾ Average daily temperature ≤ +35°C

⁽⁶⁾ Automatic reclosure delay time: 0-1h

ReSTART WITH AUTOTEST

ReSTART WITH AUTOTEST 2 POLE - VERSIONS COUPLED WITH RCCB'S

GW90901N



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION AND AUTOMATIC TEST OF THE RESIDUAL CURRENT CIRCUIT BREAKER



Code	Rated current	Idn	Type of RCCB	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 901 N	25 A	30 mA	A[IR]	230 V	5	1/4
GW 90 902 N	40 A	30 mA	A[IR]	230 V	5	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure.

In the event of a fault (earth leakage), ReStart will not reset the circuit breaker. The integrated configurable auxiliary contact will change state to indicate the automatic reset did not take place.

NOTE: the AUTOTEST function automatically and periodically (every 30 days) tests the RCCB, without interrupting the electric power supply, thus maintaining the performance of the residual current protection over time.

230 V ac power supply, phase-neutral.

GW90911



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION AND AUTOMATIC TEST OF THE RESIDUAL CURRENT CIRCUIT BREAKER - PRO VERSION



Code	Rated current	Idn	Type of RCCB	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 911 ①	25 A	30 mA	A[IR]	230 V	5	1/4
GW 90 912 ①	40 A	30 mA	A[IR]	230 V	5	1/4
GW 90 913 ①	63 A	30 mA	A[IR]	230 V	5	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate the automatic reset did not take place.

230 V ac power supply, phase-neutral.

NOTE: the AUTOTEST function automatically and periodically (every 30 days) tests the RCCB, without interrupting the electric power supply, thus for maintaining the performance of the residual current protection over time.

APPLICATIONS: due to the prolonged control over time and the lower control threshold for the insulation, the PRO version is recommended for extensive electrical systems, that are dated or subject to critical ambient conditions (e.g. humidity) that can even temporarily lower the system's insulation level.

ReSTART WITH AUTOTEST 4 POLE - VERSIONS COUPLED WITH RCCB'S

GW90921



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION AND AUTOMATIC TEST OF THE RESIDUAL CURRENT CIRCUIT BREAKER - PRO VERSION



Code	Rated current	Idn	Type of RCCB	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 921	25 A	30 mA	A[IR]	400 V	7	1/2
GW 90 922	40 A	30 mA	A[IR]	400 V	7	1/2
GW 90 923	63 A	30 mA	A[IR]	400 V	7	1/2
GW 90 927	25 A	300 mA	A[IR]	400 V	7	1/2
GW 90 928	40 A	300 mA	A[IR]	400 V	7	1/2
GW 90 929	63 A	300 mA	A[IR]	400 V	7	1/2

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate that the automatic reset did not take place.

NOTE: the AUTOTEST function automatically and periodically (every 30 days) tests the RCCB, without interrupting the electric power supply thus maintaining the performance of the residual current protection over time.

ReSTART Rd

RESTART Rd 2 POLE - VERSIONS COUPLED WITH RCCB'S SD

GW94817R



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION



Code	Rated current	Idn	Type of RCCB	Rated voltage	No. of modules EN 50022	Pack Carton
GW 94 817 R	25 A	30 mA	A	230 V	4	1/4
GW 94 827 R	40 A	30 mA	A	230 V	4	1/4
GW 94 837 R	63 A	30 mA	A	230 V	4	1/4
GW 95 651 R	25 A	30 mA	A[IR]	230 V	4	1/4
GW 95 656 R	40 A	30 mA	A[IR]	230 V	4	1/4
GW 95 661 R	63 A	30 mA	A[IR]	230 V	4	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker.
NOTE: the ARD must be supplied at 230 V ac phase-neutral.

GW94817P



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION - PRO VERSION



Code	Rated current	Idn	Type of RCCB	Rated voltage	No. of modules EN 50022	Pack Carton
GW 94 817 P	25 A	30 mA	A	230 V	4	1/4
GW 94 827 P	40 A	30 mA	A	230 V	4	1/4
GW 94 837 P	63 A	30 mA	A	230 V	4	1/4
GW 94 847 P	80 A	30 mA	A	230 V	4	1/4
GW 95 651 P	25 A	30 mA	A[IR]	230 V	4	1/4
GW 95 656 P	40 A	30 mA	A[IR]	230 V	4	1/4
GW 95 661 P	63 A	30 mA	A[IR]	230 V	4	1/4
GW 94 828 P	40 A	100 mA	A	230 V	4	1/4
GW 94 838 P	63 A	100 mA	A	230 V	4	1/4
GW 94 848 P	80 A	100 mA	A	230 V	4	1/4
GW 94 819 P	25 A	300 mA	A	230 V	4	1/4
GW 94 829 P	40 A	300 mA	A	230 V	4	1/4
GW 94 839 P	63 A	300 mA	A	230 V	4	1/4
GW 94 849 P	80 A	300 mA	A	230 V	4	1/4
GW 94 924 P	40 A	300 mA	A[S]	230 V	4	1/4
GW 94 934 P	63 A	300 mA	A[S]	230 V	4	1/4
GW 94 944 P	80 A	300 mA	A[S]	230 V	4	1/4
GW 94 830 P	40 A	500 mA	A	230 V	4	1/4
GW 94 840 P	63 A	500 mA	A	230 V	4	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate the automatic reset did not take place.

NOTE: The ARD must be supplied at 230 V ac phase-neutral.

APPLICATIONS: due to the prolonged control over time and the lower control threshold for the insulation, the PRO version is recommended for extensive electrical systems, that are dated or subject to critical ambient conditions (e.g. humidity) that can even temporarily lower the system's insulation level.

RESTART Rd 4 POLE - VERSIONS COUPLED WITH SD RCCB'S

GW94937P



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION - PRO VERSION



Code	Rated current	I _{dn}	Type of RCCB	Rated voltage	No. of modules EN 50022	Pack Carton
GW 94 662 P	25 A	30 mA	AC	400 V	6	1/2
GW 94 667 P	40 A	30 mA	AC	400 V	6	1/2
GW 94 757 P	63 A	30 mA	AC	400 V	7	1/2
GW 94 867 P	25 A	30 mA	A	400 V	6	1/2
GW 94 897 P	40 A	30 mA	A	400 V	6	1/2
GW 94 937 P	63 A	30 mA	A	400 V	7	1/2

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate that the automatic reset did not take place.

NOTE: the ARD must be supplied at 230 V ac phase-neutral.

ReSTART Rd 4 POLE - VERSIONS TO BE COUPLED WITH RCCB'S SD

GW90966



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION - PRO VERSION



Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 966	SD RCCB's - 2P/4P up to 100 A - 30 mA	230 V	3	1/4
GW 90 968	SD RCCB's - 2P/4P up to 100 A - 100/300/500 mA	230 V	3	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate the automatic reset did not take place.

NOTE: The ARD must be supplied at 230 V ac phase-neutral.

ReSTART RM

ReSTART RM 2 POLE - VERSIONS COUPLED WITH COMPACT RCBO'S MDC

GW94225R



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION AND OF THE SHORT CIRCUIT



Code	Rated current	I _{dn}	Type of RCBO	Curve	Rated voltage	No. of modules EN 50022	Pack Carton
BREAKING CAPACITY (EN 61009-1): 4500 A							
GW 94 225 R	6 A	30 mA	A	C	230 V	4	1/4
GW 94 226 R	10 A	30 mA	A	C	230 V	4	1/4
GW 94 231 R	13 A	30 mA	A	C	230 V	4	1/4
GW 94 227 R	16 A	30 mA	A	C	230 V	4	1/4
GW 94 228 R	20 A	30 mA	A	C	230 V	4	1/4
GW 94 229 R	25 A	30 mA	A	C	230 V	4	1/4
GW 94 230 R	32 A	30 mA	A	C	230 V	4	1/4
BREAKING CAPACITY (EN 61009-1): 6000 A							
GW 94 325 R	6 A	30 mA	A	C	230 V	4	1/4
GW 94 326 R	10 A	30 mA	A	C	230 V	4	1/4
GW 94 331 R	13 A	30 mA	A	C	230 V	4	1/4
GW 94 327 R	16 A	30 mA	A	C	230 V	4	1/4
GW 94 328 R	20 A	30 mA	A	C	230 V	4	1/4
GW 94 329 R	25 A	30 mA	A	C	230 V	4	1/4
GW 94 330 R	32 A	30 mA	A	C	230 V	4	1/4
GW 95 805 R	6 A	30 mA	A[IIR]	C	230 V	4	1/4
GW 95 806 R	10 A	30 mA	A[IIR]	C	230 V	4	1/4
GW 95 811 R	13 A	30 mA	A[IIR]	C	230 V	4	1/4
GW 95 807 R	16 A	30 mA	A[IIR]	C	230 V	4	1/4
GW 95 808 R	20 A	30 mA	A[IIR]	C	230 V	4	1/4
GW 95 809 R	25 A	30 mA	A[IIR]	C	230 V	4	1/4
GW 95 810 R	32 A	30 mA	A[IIR]	C	230 V	4	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation and the short circuit prior to the automatic reclosure. In the event of a fault (earth leakage or short circuit), ReStart will not reset the circuit breaker.

NOTE: The ARD must be supplied at 230 V ac phase-neutral.

GW94325P



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION AND OF THE SHORT CIRCUIT - PRO VERSION



Code	Rated current	I _{dn}	Type of RCBO	Curve	Rated voltage	No. of modules EN 50022	Pack Carton
BREAKING CAPACITY (EN 61009-1): 6000 A							
GW 94 325 P	6 A	30 mA	A	C	230 V	4	1/4
GW 94 326 P	10 A	30 mA	A	C	230 V	4	1/4
GW 94 331 P	13 A	30 mA	A	C	230 V	4	1/4
GW 94 327 P	16 A	30 mA	A	C	230 V	4	1/4
GW 94 328 P	20 A	30 mA	A	C	230 V	4	1/4
GW 94 329 P	25 A	30 mA	A	C	230 V	4	1/4
GW 94 330 P	32 A	30 mA	A	C	230 V	4	1/4
GW 94 335 P	6 A	300 mA	A	C	230 V	4	1/4
GW 94 336 P	10 A	300 mA	A	C	230 V	4	1/4
GW 94 337 P	16 A	300 mA	A	C	230 V	4	1/4
GW 94 338 P	20 A	300 mA	A	C	230 V	4	1/4
GW 94 339 P	25 A	300 mA	A	C	230 V	4	1/4
GW 94 340 P	32 A	300 mA	A	C	230 V	4	1/4
GW 95 847 P	16 A	300 mA	A[S]	C	230 V	4	1/4
GW 95 848 P	20 A	300 mA	A[S]	C	230 V	4	1/4
GW 95 849 P	25 A	300 mA	A[S]	C	230 V	4	1/4
GW 95 850 P	32 A	300 mA	A[S]	C	230 V	4	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation and the short circuit prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate the automatic reset did not take place. In the event of a short circuit, ReStart will not reset the circuit breaker.

NOTE: The ARD must be supplied at 230 V ac phase-neutral.

APPLICATIONS: due to the prolonged control over time and the lower control threshold for the insulation, the PRO version is recommended for extensive electrical systems, that are dated or subject to critical ambient conditions (e.g. humidity) that can even temporarily lower the system's insulation level.

ReSTART Rm 4 POLE - VERSIONS TO BE COUPLED WITH COMPACT RCBO's MDC

GW90986



AUTOMATIC RECLOSING DEVICES WITH PREVENTIVE CHECK OF THE INSULATION AND OF THE SHORT CIRCUIT - PRO VERSION



Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 986	MDC - RCBO's - 1P+N/2P/4P - 30 mA	230 V	3	1/4
GW 90 988	MDC - RCBO's - 1P+N/2P/4P - 300 mA	230 V	3	1/4

CHARACTERISTICS: after RCCB has tripped, ReStart checks the insulation and the short circuit prior to the automatic reclosure. In the event of a fault (earth leakage), ReStart will not reset the circuit breaker but will continue to monitor the circuit every 2 minutes reclosing the circuit breaker when safe to do so. In the meantime the integrated configurable auxiliary contact will change state to indicate the automatic reset did not take place. In the event of a short circuit, ReStart will not reset the circuit breaker.

NOTE: The ARD must be supplied at 230 V ac phase-neutral.

ReSTART Rm TOP - VERSION TO BE COUPLED WITH MDC/MT+BD RCBO's AND MTC/MT MCB's

GW90893



ADJUSTABLE AUTOMATIC RECLOSING DEVICE WITH/WITHOUT PREVENTIVE CHECK OF THE INSULATION AND/OR OF THE SHORT CIRCUIT

Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 893	MDC/MT+BD RCBO's and MTC/MT MCB's	230 V	4	1/4

CHARACTERISTICS: the Rm TOP ReStart allows to:

- set the reset mode (reset with system check, reset by attempts, remote reset and excluded reset)
- adapt the insulation threshold on the basis of the associated circuit breaker
- regulate the reset time delay.

The device is equipped with 2 integrated auxiliary contacts of position and/or tripped relay.

NOTE: The ARD must be supplied at 230 V ac phase-neutral.

ReSTART CM - MOTOR OPERATING DEVICE FOR MODULAR CIRCUIT BREAKERS

GW90896



MOTOR OPERATING DEVICE WITHOUT PREVENTIVE CONTROL OF THE INSULATION AND OF THE SHORT CIRCUIT

Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 896	MDC/MT+BD RCBO's and MTC/MT MCB's	230 V	2	1/4

CHARACTERISTICS: The device is equipped with 1 integrated auxiliary position contact and/or tripped relay.

NOTE: The motor operating device must be supplied at 230 V ac phase-neutral.

ELECTRIC AUXILIARIES FOR ReSTART DEVICES

GW96014



SHUNT TRIP RELEASE WITH SIMULTANEOUS RESET

Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW 96 014	ReStart Rm TOP/Restart CM	230V ac	1	1/6

CHARACTERISTICS: when the circuit breaker trips, it can be remotely reset with the aid of the ReStart Rm TOP 4P or the ReStart CM, even before the shunt trip release has been reset. ReStart Rm TOP 4P and ReStart CM activate a remote reset of both the circuit breaker lever and the shunt trip release lever simultaneously.

APPLICATIONS: it is used to cause the remote opening of the circuit breaker coupled with the ReStart Rm TOP 4P or the ReStart CM.

When using a release associated with ReStart Rm TOP 4P, pay attention to the system control and reset logic set on the ReStart Rm TOP 4P.

NOTES: when using a ReStart Rm TOP 4P, the shunt trip release must be placed between the ReStart Rm TOP 4P device and the circuit breaker.

When using a ReStart CM, the shunt trip release must be placed to the left of the ReStart CM device. An position auxiliary contact or fault indication switch can also be added to the left of the release GW96014.

