Automatic reclosing devices







90 ReStart

Automatic reclosing devices

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ReStart Autotest PRO - Automatic reclosing devices with preventive check of the insulation and automatic test of the residual current circuit breaker

	COUPLED VERSIONS WITH RCCB							
	ATR2 - 2 poles			ATR4 - 4 poles				
	5 mod.		7 mod.	7 mod.				
								
	A[IR] type		B type	A[IR] type		B type		A[S] type
In (A)	**IΔn = 30 mA**	**IΔn = 300 mA**	**IΔn = 30 mA**	**IΔn = 30 mA**	**IΔn = 300 mA**	**IΔn = 30 mA**	**IΔn = 300 mA**	**IΔn = 300 mA**
25	GW 90 901 N	GW 90 917	GW 90 911 B	GW 90 921	GW 90 927	GW 90 921 B	GW 90 927 B	-
40	GW 90 902 N	GW 90 918	GW 90 912 B	GW 90 922	GW 90 928	GW 90 922 B	GW 90 928 B	-
63	GW 90 913	GW 90 919	GW 90 913 B	GW 90 923	GW 90 929	GW 90 923 B	GW 90 929 B	GW 90 930

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

RESTART
SELECTION

ReStart Configurator

Selection of ReStart automatic reclosing devices

RESTART is an online software that can be used by any device connected to Internet (smartphones, tablets or PCs), with which it is possible to find ReStart automatic reclosing devices.

Scan the QR code to find out more about the ReStart range and choose the device most suited to your needs.

ReStart RD - Automatic reclosing devices with preventive check of the insulation

	COUPLED VERSIONS WITH RCCB IDP	
	RD2 - 2 poles	RD2 - 2 poles, PRO version
	3 mod.	
		
	IΔn = 30 mA	
In (A)	A type	
25	GW D4 817 R	GW D4 817 P
40	GW D4 827 R	GW D4 827 P

		VERSIONS TO BE COUPLED WITH RCCB IDP							
		RD2 - 2 poles	RD2 - 2 poles, PRO version			RD4 - 4 poles, PRO version			
									
		GW D0 971	GW D0 976	GW D0 978		GW 90 967	GW 90 969		
		1 mod.	1 mod.			3 mod.			
		+	+	+		+	+		
		RCCB IDP 2P				RCCB IDP 4P			
		2 mod.				4 mod.			
									
In (A)	Type	IΔn = 30 mA	IΔn = 100 mA	IΔn = 300 mA	IΔn = 500 mA	IΔn = 30 mA	IΔn = 100 mA	IΔn = 300 mA	IΔn = 500 mA
25	AC	GW D4 002 GW D4 617*	GW D4 003	GW D4 004	-	GW D4 102	GW D4 103	GW D4 104	-
	A	GW D4 012 GW D4 817*	GW D4 013	GW D4 014	-	GW D4 112	GW D4 113	GW D4 114	-
	A[IR]	GW D4 202	-	GW D4 203	-	GW D4 217	-	GW D4 218	-
	F	GW D4 261	-	-	-	GW D4 281	-	-	-
	B	-	-	-	-	GW D4 502 **	-	GW D4 504 **	-
		-	-	-	-	GW D4 527	-	GW D4 529	-
40	AC	GW D4 022 GW D4 627*	GW D4 023	GW D4 024	GW D4 025	GW D4 122	GW D4 123	GW D4 124	GW D4 125
	A	GW D4 032 GW D4 827*	GW D4 033	GW D4 034	GW D4 035	GW D4 132	GW D4 133	GW D4 134	GW D4 135
	A[IR]	GW D4 205	-	GW D4 206	-	GW D4 220	-	GW D4 221	-
	A[S]	-	-	GW D4 234	GW D4 235	-	-	GW D4 249	GW D4 250
	F	GW D4 265	-	-	-	GW D4 285	-	-	-
	B	-	-	-	-	GW D4 507 **	-	GW D4 509 **	-
		-	-	-	-	GW D4 532	-	GW D4 534	-
63	AC	GW D4 042	GW D4 043	GW D4 044	GW D4 045	GW D4 142	GW D4 143	GW D4 144	GW D4 145
	A	GW D4 052	GW D4 053	GW D4 054	GW D4 055	GW D4 152	GW D4 153	GW D4 154	GW D4 155
	A[IR]	GW D4 208	-	GW D4 209	-	GW D4 223	-	GW D4 224	-
	A[S]	-	-	GW D4 237	GW D4 238	-	-	GW D4 252	GW D4 253
	F	GW D4 269	-	-	-	GW D4 289	-	-	-
	B	-	-	-	-	GW D4 512 **	-	GW D4 514 **	-
		-	-	-	-	GW D4 537	-	GW D4 539	-
80	AC	GW D4 062	-	-	-	-	-	-	-
	A	GW D4 072	-	-	-	-	-	-	-

GW90967 and GW90969 ARD's can be coupled with RCCB IDP 2 poles.
NOTE: ARD must be supplied with 230 V ac phase-neutral for working.
*Additional accessories not available, **2P 4 Modules, ***RCCB with Neutral on the left.

ReStart RM - Automatic reclosing devices with preventive check of the insulation and of the short circuit

			COUPLED VERSIONS WITH RCBO MDC	
			RM2 - 2 poles	RM2 - 2 poles, PRO version
			3 mod.	
				
			IΔn = 30 mA	
Icn (A)	Curve	In (A)	A type	
4500	C	16	GW D4 227 R	GW D4 227 P
		25	GW D4 229 R	GW D4 229 P

			VERSIONS TO BE COUPLED WITH RCBO MDC 2 POLES		
			RM2 - 2 poles	RM2 - 2 poles, PRO version	
					
			GW D0 991	GW D0 996	GW D0 998
			1 mod.	1 mod.	
			+	+	+
			RCBO MDC 1P+N, 2P		
			2 mod.		
					
			IΔn = 30 mA		IΔn = 300 mA

			AC type		A type		A[IR] type	F type	AC type		A type		A[S] type
Icn (A)	Curve	In (A)	1P+N	2P	1P+N	2P	2P	2P	1P+N	2P	1P+N	2P	2P
4500	C	6	GW 94 005	GW 94 025	GW 94 205	GW 94 225	-	-	GW 94 015	GW 94 035	GW 94 215	GW 94 235	-
		10	GW 94 006	GW 94 026	GW 94 206	GW 94 226	-	-	GW 94 016	GW 94 036	GW 94 216	GW 94 236	-
		13	GW 94 011	GW 94 031	GW 94 211	GW 94 231	-	-	-	-	-	-	-
		16	GW 94 007	GW 94 027	GW 94 207	GW 94 227	-	-	GW 94 017	GW 94 037	GW 94 217	GW 94 237	-
		20	GW 94 008	GW 94 028	GW 94 208	GW 94 228	-	-	GW 94 018	GW 94 038	GW 94 218	GW 94 238	-
		25	GW 94 009	GW 94 029	GW 94 209	GW 94 229	-	-	GW 94 019	GW 94 039	GW 94 219	GW 94 239	-
		32	GW 94 010	GW 94 030	GW 94 210	GW 94 230	-	-	GW 94 020	GW 94 040	GW 94 220	GW 94 240	-
6000	C	6	GW 94 105	GW 94 125	GW 94 305	GW 94 325	GW 95 805	GW 95 935	GW 94 115	GW 94 135	GW 94 315	GW 94 335	-
		10	GW 94 106	GW 94 126	GW 94 306	GW 94 326	GW 95 806	GW 95 936	GW 94 116	GW 94 136	GW 94 316	GW 94 336	-
		13	GW 94 111	GW 94 131	GW 94 311	GW 94 331	GW 95 811	GW 95 941	-	-	-	-	-
		16	GW 94 107	GW 94 127	GW 94 307	GW 94 327	GW 95 807	GW 95 937	GW 94 117	GW 94 137	GW 94 317	GW 94 337	GW 95 847
		20	GW 94 108	GW 94 128	GW 94 308	GW 94 328	GW 95 808	GW 95 938	GW 94 118	GW 94 138	GW 94 318	GW 94 338	GW 95 848
		25	GW 94 109	GW 94 129	GW 94 309	GW 94 329	GW 95 809	GW 95 939	GW 94 119	GW 94 139	GW 94 319	GW 94 339	GW 95 849
		32	GW 94 110	GW 94 130	GW 94 310	GW 94 330	GW 95 810	GW 95 940	GW 94 120	GW 94 140	GW 94 320	GW 94 340	GW 95 850
	B	6	-	-	GW 95 105	GW 95 125	-	GW 95 975	-	-	GW 95 115	GW 95 135	-
		10	-	-	GW 95 106	GW 95 126	-	GW 95 976	-	-	GW 95 116	GW 95 136	-
		13	-	-	GW 95 111	GW 95 131	-	GW 95 981	-	-	-	-	-
		16	-	-	GW 95 107	GW 95 127	-	GW 95 977	-	-	GW 95 117	GW 95 137	-
		20	-	-	GW 95 108	GW 95 128	-	GW 95 978	-	-	GW 95 118	GW 95 138	-
		25	-	-	GW 95 109	GW 95 129	-	GW 95 979	-	-	GW 95 119	GW 95 139	-
		32	-	-	GW 95 110	GW 95 130	-	GW 95 980	-	-	GW 95 120	GW 95 140	-

NOTE: ARD must be supplied with 230 V ac phase-neutral for working.
The automatic reclosing devices ReStart RM can also be coupled with RCBO 2P MDC 100 (Icn=10000A).

			VERSIONS TO BE COUPLED WITH RCBO MDC 4 POLES					
			RM4 - 4 poles, PRO version					
								
			GW 90 986			GW 90 988		
			3 mod.			3 mod.		
			+			+		
			RCBO MDC 4P					
			4 mod.			4 mod.		
								
			IΔn = 30 mA			IΔn = 300 mA		
Icn (A)	**Curve**	**In (A)**	**AC type**	**A type**	**A[IR] type**	**AC type**	**A type**	**A[S] 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 1P+N and 2 poles (MDC 1P+N and 2P).
ARD must be supplied with 230 V ac phase-neutral for working.

ReStart RM TOP - Adjustable reclosing device with/without preventive check of the insulation and/or short-circuits

		VERSION TO BE COUPLED WITH MCB AND ADD-ON RCD 4 POLES		
				
		GW 90 893		
		4 mod.		
		+		
		MCB 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
	50	GW 92 092	GW 92 692	GW 92 892
	63	GW 92 093	GW 92 693	GW 92 893
B	**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	-
	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	-
D	**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 MTC (except for 1P+N), RCBO MDC, MCB MT 1P+N, 2P and 3P and with add-on RCD BD 2P and 3P. ARD must be supplied with 230 V ac phase-neutral for working.

Technical data - ReStart Autotest PRO

TYPE		ReStart with Autotest PRO 2P	ReStart with Autotest PRO 4P
			
Electrical characteristics			
Standards:		**IEC EN 63024, IEC EN 61008-1**	
Distribution system:		TT - TN-S	
Rated operational voltage (Ue):	**(V)**	230 ac [1]	400 ac
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	
Overvoltage category:		III	
Rated frequency:	**(Hz)**	50	
Residual making and breaking capacity (IΔm):	**(A)**	630	
Rated conditional residual short-circuit current with fuse (IΔc):	**(A)**	Type A[IR] and A[S] 10000 (gL 63A) for In=25-40A 10000 (gL 80A) for In=63A Type B 10000 (gL 63A) for In=25-40-63A	
Number of poles:		2	4
Type of associated residual current circuit breaker:		A[IR], A[S], B	
Rated current (In):	**(A)**	25 - 40 - 63	
Rated residual operating current (IΔn):	**(mA)**	30 - 300	
Rated non-operating resistance between live parts and earth (Rdo):	**(kΩ)**	8 (30mA) - 2.5 (300mA)	
Rated operating resistance between live parts and earth (Rd):	**(kΩ)**	16 (30mA) - 5 (300mA)	
Power loss at In:	**(W)**	2.2 (25A) - 5.4 (40A) - 6.2 (63A)	3.5 (25A) - 6 (40A) - 12 (63A)
Off-load absorbed power:	**(VA)**	4 (cosϕ=0.2)	
Power absorbed during automatic reclosing:	**(VA)**	41 (cosϕ=0.5)	
Power supply:		from above	
Mechanical characteristics			
Width in DIN modules:		Type A[IR]: 5 - Type B: 7	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:	**(mm²)**	flexible cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 rigid cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10	
Rated tightening torque:	**(Nm)**	2	
Mounting position:		any	
Degree of protection:		IP20 (terminals) - IP40 (front)	
Pollution degree:		2	
Operating temperature:	**(°C)**	-25 +60 [3]	
Stocking temperature:	**(°C)**	-40 +70	
Tropicalization:		55°C - RH 95%	
Auxiliary contact characteristics			
Type of contact:		Photomos (potential free contact)	
Operating voltage:	**(V)**	5÷230 ac/dc	
Operating current:	**(mA)**	0.6 (min) - 100 cosϕ=1 (max)	
Operating frequency:	**(Hz)**	50	
Category of use:		AC12	
Operating mode:		NO / NC / NC + impulse [4]	
Terminal section:	**(mm²)**	≤ 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:		•	
Compatible with ModBus interface module:		•	
Internal electrical protection:		PTC	

[1] 230V phase-neutral power supply [2] In the absence of failure in the system [3] Average daily temperature ≤ +35°C
[4] By setting NC+pulse mode, the auxiliary contact switches for 100ms at the end of each Autotest cycle performed successfully.

Technical data - ReStart RD

TYPE		ReStart RD 2P	ReStart RD PRO 2P	ReStart RD PRO 4P
				
Electrical characteristics				
Standards:		**IEC EN 63024**		
Distribution system:		TT - TN-S		
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		
Overvoltage category:		III		
Rated frequency:	**(Hz)**	50/60		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:		2P		4P
Type of IDP RCCB:		AC - A - A[IR] - A[S] -F -B		
Rated current (In):	**(A)**	25 - 40 - 63 - 80		
Rated residual operating current (IΔn):	**(mA)**	30 - 100 - 300 - 500		
Rated non-operating resistance between live parts and earth (Rdo):	**(kΩ)**	8 (30mA) - 2.5 (100/300/500mA)		
Rated operating resistance between live parts and earth (Rd):	**(kΩ)**	16 (30mA) - 5 (100/300/500mA)		
Power loss at In:	**(W)**	Power loss of the associated circuit breaker		
Off-load absorbed power:	**(VA)**	3 (cosϕ=0.4)		4 (cosϕ=0.2)
Power absorbed during automatic reclosing:	**(VA)**	18 (cosϕ=0.5)		45 (cosϕ=0.5)
Mechanical characteristics				
Width in DIN modules:		1		3
Reclosing time:	**(s)**	10		
Maximum operational frequency:	**(man/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:	**(mm²)**	flexible cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 rigid cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10		
Circuit breaker rated tightening torque:	**(Nm)**	3 (IDP) - 2 (IDP NA)		
Mounting position:		any		
Circuit breaker degree of protection:		IP20 (terminals) - IP40 (front)		
Pollution degree:		2		
Operating temperature:	**(°C)**	-5 +40	-5 +60 [3]	-25 +60 [3]
Stocking temperature:	**(°C)**	-40 +70		
Tropicalization:		55°C - UR 95%		
Auxiliary contact characteristics				
Can be fitted with auxiliary:		no	yes (with GWD0951)	already integrated in the ReStart
Type of contact:		-	Photomos (potential free contact)	
Operating voltage:	**(V)**	-	5÷230 ac/dc	
Operating current:	**(mA)**	-	0,6 (min) - 100 cosϕ=1 (max)	
Operating frequency:	**(Hz)**	-	50	
Category of use:		-	AC12	
Operating mode:		-	NO\NC\NO as signal of handle position	
Terminal section:	**(mm²)**	-	≤ 2,5	
Rated tightening torque:	**(Nm)**	-	0.4	
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:			•	•
Compatible with WiFi/ModBus interface module:			•	•
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

Technical data - ReStart RM

TYPE		ReStart RM 2P	ReStart RM PRO 2P	ReStart RM PRO 4P	RM TOP	CM
						
Electrical characteristics						
Standards:		IEC EN 63024			-	-
Distribution system:		TT - TN-S			TT - TN - IT [1]	TT - TN - IT
Rated operational voltage (Ue):	**(V)**	230 ac [2]				
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				
Overvoltage category:		III				
Rated frequency:	**(Hz)**	50/60		50		
Residual making and breaking capacity (IΔm):	**(A)**	IΔm of the associated circuit breaker				
Number of poles:		2P		4P		
Type of MDC RCBO:		AC - A - A[IR] - A[S] -F				
Type of MT+BD RCBO:		-			AC - A - A[IR] - A[S]	
Rated current (In):	**(A)**	from 6 to 32			from 1 to 63	
Rated residual operating current (IΔn):	**(mA)**	30 - 300			30 - 300 - 500 - 1000	
Rated non-operating resistance between live parts and earth (Rdo):	**(kΩ)**	8 (30mA) - 2.5 (300mA)			8 (30mA) - 2.5 (300/500/1000mA)	-
Rated operating resistance between live parts and earth (Rd):	**(kΩ)**	16 (30mA) - 5 (300mA)			16 (30mA) - 5 (300/500/1000mA)	-
Rated non-operating resistance between live parts (Rcco):	**(Ω)**	0.4		0.3		-
Rated operating resistance between live parts (Rcc):	**(Ω)**	2.3		1.8		-
Power loss at In:	**(W)**	Power loss of the associated circuit				
Off-load absorbed power:	**(VA)**	3 (cosϕ=0.4)		16 (cosϕ=0.2)	15 (cosϕ=0.1)	0 (cosϕ=0.2)
Power absorbed during automatic reclosing:	**(VA)**	18 (cosϕ=0.5)		34 (cosϕ=0.7)	30 (cosϕ=0.6)	30 (cosϕ=0.6)
Reclosing control:		automatic			automatic / remote [3]	remote [3]
Mechanical characteristics						
Width in DIN modules:		1		3	4	2
Reclosing time:	**(s)**	10			3 (without system test) 10 (with system test)	3
Remote control opening time:	**(s)**	-			2	
Maximum operational frequency:	**(man/h)**	30				
Max mechanical endurance (total no. operations):		4000			10000	
Maximum no. of consecutive automatic reclosure operations [4]:		3				-
Counter reset time No. of consecutive automatic reclosure operations:	**(s)**	60				-
Section of circuit breaker terminals:	**(mm²)**	flexible cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 rigid cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10				
Circuit breaker rated tightening torque:	**(Nm)**	2				
Mounting position:		any				
Circuit breaker degree of protection:		IP20 (terminals) - IP40 (front)				
Pollution degree:		2				
Operating temperature:	**(°C)**	-5 +40	-5 +60 [5]	-25 +60 [5]		
Stocking temperature:	**(°C)**	-40 +70				
Tropicalization:		55°C - UR 95%				
Auxiliary contact characteristics						
Can be fitted with auxiliary:		no	yes (with GWD0951)	already integrated in the ReStart	already integrated in the ReStart	already integrated in the ReStart	already integrated in the ReStart
Type of contact:		-	Photomos (potential free contact)		Changeover	Photomos (potential free contact)	Changeover
Operating voltage:	**(V)**	-	5÷230 ac/dc		230 ac / 30 dc	5÷230 ac/dc	230 ac / 30 dc
Operating current:	**(mA)**	-	0.6 (min) - 100 cosϕ=1 (max)		1.5 ac / 0.8 dc	0.6 (min) - 100 cosϕ=1 (max)	1.5 ac / 0.8 dc
Operating frequency:	**(Hz)**	-	50				
Category of use:		-	AC12				
Operating mode:		-	NO\NC\NO as signal of handle position		CO	NO/NC/ INTERMITTENT	CO
Terminal section:	**(mm²)**	-	≤ 2.5				
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:			●	●	●	●	
Compatible with WiFi/ModBus interface module:			●	●			
Internal electrical protection:		PTC	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

90 ReStart

Automatic reclosing devices

In the event the switch trips, the ReStart devices, after checking the system status, restore the power supply thereby ensuring maximum continuity of service in complete safety.Available for both residual current circuit breakers and residual current circuit breakers with overcurrent protection, the range is characterized by the Autotest functions, with periodic and automatic control of the residual current protection without interrupting the power supply and PRO with extended control of the system.



RESTART AUTOTEST PRO

ReStart Autotest PRO 2 poles - Versions coupled with RCCB's



GW 90 901 N

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 90 911 B	25 A	30 mA	B	230 V	7	1/2
GW 90 902 N	40 A	30 mA	A[IR]	230 V	5	1/4
GW 90 912 B	40 A	30 mA	B	230 V	7	1/2
GW 90 913	63 A	30 mA	A[IR]	230 V	5	1/4
GW 90 913 B	63 A	30 mA	B	230 V	7	1/2
GW 90 917	25 A	300 mA	A[IR]	230 V	5	1/4
GW 90 918	40 A	300 mA	A[IR]	230 V	5	1/4
GW 90 919	63 A	300 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 that the automatic reset did not take place.
Compatible with:
-GW90992 ModBus RS485 interface module.
NOTE: the Autotest function automatically and periodically (every 28 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.
RCCB's type B and A[IR] Impulse Resistant presents greater resistance to untimely tripping in comparison to standard residual current circuit breakers. Immunity level 8/20µs: 3000A for IR type, 250A for standard type.

ReStart Autotest PRO 4 poles - Versions coupled with RCCB's



GW 90 921

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 90 921	25 A	30 mA	A[IR]	400 V	7	1/2
GW 90 921 B	25 A	30 mA	B	400 V	7	1/2
GW 90 922	40 A	30 mA	A[IR]	400 V	7	1/2
GW 90 922 B	40 A	30 mA	B	400 V	7	1/2
GW 90 923	63 A	30 mA	A[IR]	400 V	7	1/2
GW 90 923 B	63 A	30 mA	B	400 V	7	1/2
GW 90 927	25 A	300 mA	A[IR]	400 V	7	1/2
GW 90 927 B	25 A	300 mA	B	400 V	7	1/2
GW 90 928	40 A	300 mA	A[IR]	400 V	7	1/2
GW 90 928 B	40 A	300 mA	B	400 V	7	1/2
GW 90 929	63 A	300 mA	A[IR]	400 V	7	1/2
GW 90 929 B	63 A	300 mA	B	400 V	7	1/2
GW 90 930	63 A	300 mA	A[S]	400 V	7	1/2

CHARACTERISTICS: when the' RCCB switch trips, ReStart performs' the isolation check before the automatic reset. In the event of a ground fault, ReStart does not reset'the switch but continues to check the'system every 2 minutes until, once the safety conditions are restored, it resets the'switch. The auxiliary contact that can be configured and integrated in the meantime switches on to signal the failure of automatic resetting.
Coupled with:
-ModBus RS485 GW90992 interface
module.
NOTE: the SELF-TEST function automatically and periodically (every 28 days) tests the RCCB without cutting off power to the'system to maintain the' efficiency of the RCCB protection over time.
Reinforced Immunity Type A[S], B and A[IR] circuit breakers are equipped with greater resistance to unexpected trips than standard RCCBs. Immunity level 8/20µs: 3000A for IR versions and S, 250A for standard versions.

RESTART RD

ReStart RD 2 poles - versions coupled with RCCB'S IDP



GW D4 817 R

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 D4 817 R	25 A	30 mA	A	230 V	3	1/4
GW D4 827 R	40 A	30 mA	A	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.
NOTE: the ARD must be supplied at 230 Vac phase-neutral.



GW D4 817 P

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 D4 817 P	25 A	30 mA	A	230 V	3	1/4
GW D4 827 P	40 A	30 mA	A	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.
Compatible with:
-GWD0951 auxiliary contact
-GW90992 ModBus RS485 interface module (only if already coupled with GWD0951 auxiliary contact).
NOTE: the ARD must be supplied at 230 Vac phase-neutral.

ReStart RD 2 poles - versions to be coupled with RCCB'S IDP



GW D0 971

Automatic reclosing devices with preventive check of the insulation

Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW D0 971	IDP RCCBs - 2P up to 80 A - 30 mA	230 V	1	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.
NOTES. cannot be used with 4P RCCBs in 3 modules and type B RCCBs. the ARD must be supplied at 230 Vac phase-neutral.



GW D0 976

Automatic reclosing devices with preventive control of the insulation - PRO version

Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW D0 976	IDP RCCBs - 2P up to 80 A - 30 mA	230 V	1	1/4
GW D0 978	IDP RCCBs - 2P up to 63 A - 100/300/500 mA	230 V	1	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.
Compatible with:
-GWD0951 auxiliary contact
-GW90992 ModBus RS485 interface module (only if already coupled with GWD0951 auxiliary contact)
NOTES: cannot be used with 4P RCCBs in 3 modules and type B RCCBs. The ARD must be supplied at 230 Vac phase-neutral.

ReStart RD 4 poles - versions to be coupled with RCCB'S IDP



GW 90 967

Automatic reclosing devices with preventive control of the insulation - PRO version

Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 967	IDP RCCBs - 2P up to 80 A and 4P up to 63 A - 30 mA	230 V	3	1/4
GW 90 969	IDP RCCBs - 2P/4P up to 63 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 willcontinue 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 thatthe automatic reset did not take place.
Compatible with:
-GW90992 ModBus RS485 interface module.
NOTES: they cannot be used with 4P RCCBs in 3 modules. 230 V ac power supply, phase-neutral.

RESTART RM

ReStart RM 2 poles - versions coupled with compact RCBO'S MDC



GW D4 229 R

Automatic reclosing devices with preventive check of the insulation and of the short circuit

Code	Rated current	Idn	Type of RCBO	Curve	Rated voltage	No. of modules EN 50022	Pack Carton
Breaking capacity (EN 61009-1): 4500 A							
GW D4 227 R	16 A	30 mA	A	C	230 V	3	1/4
GW D4 229 R	25 A	30 mA	A	C	230 V	3	1/4

CHARACTERISTICS: after RCBO 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 Vac phase-neutral.



GW D4 229 P

Automatic reclosing devices with preventive check of the insulation and of the short circuit - PRO version

Code	Rated current	Idn	Type of RCBO	Curve	Rated voltage	No. of modules EN 50022	Pack Carton
Breaking capacity (EN 61009-1): 4500 A							
GW D4 227 P	16 A	30 mA	A	C	230 V	3	1/4
GW D4 229 P	25 A	30 mA	A	C	230 V	3	1/4

CHARACTERISTICS: after RCBO 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.

Compatible with:

-GWD0951 auxiliary contact

-GW90992 ModBus RS485 interface module (only if already coupled with GWD0951 auxiliary contact).

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

ReStart RM 2 poles - versions to be coupled with compact RCBO'S MDC



GW D0 991

Automatic reclosing devices with preventive check of the insulation and of the short circuit

Code	Suitable for	Rated voltage	No. of modules EN 50022	Pack Carton
GW D0 991	RCBO's MDC - 1P+N/2P - 30 mA	230 V	1	1/4

CHARACTERISTICS: after RCBO 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 Vac phase-neutral.



GW D0 996

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 D0 996	RCBO's MDC - 1P+N/2P - 30 mA	230 V	1	1/4
GW D0 998	RCBO's MDC - 1P+N/2P - 100-300 mA	230 V	1	1/4

CHARACTERISTICS: after RCBO 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.
Compatible with:
-GWD0951 auxiliary contact
-GW90992 ModBus RS485 interface module (only if already coupled with GWD0951 auxiliary contact).
NOTE: the ARD must be supplied at 230 Vac phase-neutral.

ReStart RM 4 poles - versions to be coupled with compact RCBO'S MDC



GW 90 986

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	RCBO's MDC - 1P+N/2P/4P - 30 mA	230 V	3	1/4
GW 90 988	RCBO's MDC - 1P+N/2P/4P - 100 and 300 mA	230 V	3	1/4

CHARACTERISTICS: after RCBO 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 that the automatic reset did not take place.
Compatible with:
- GW90992 ModBus RS485 interface module
NOTE: the ARD must be supplied at 230 Vac phase-neutral.

ReStart RM TOP - Version to be coupled with RCBO's MDC/MT+BD or MCB's MTC/MT



GW 90 893

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	RCBO's MDC/MT+BD and MCB's MTC/MT	230 V	4	1/4

CHARACTERISTICS: The ReStart Rm TOP allows to:
- set the reclosing mode (reclosing with system check, reclosing by attempts, remote reclosing and excluded reclosing)
- adapt the insulation threshold in according to the associated circuit breaker
- regulate the reclosing time dealy.

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. The compact miniature circuit breakers MTC 1P+N can not be used with ReStart RM TOP.

ReStart CM - Motor operating device to be coupled with RCBO's MDC/MT+BD or MCB's MTC/MT



GW 90 896

Motor operating device without preventive control of the insulation and of the short circuit

Code	Suitable for	Rated coil voltage	Rated voltage	No. of modules EN 50022	Pack Carton
GW 90 896	RCBO's MDC/MT+BD or MCB's MTC/MT	230 V ac	230 V	2	1/4
GW 90 898	RCBO's MDC/MT+BD or MCB's MTC/MT	12 V dc	230 V	2	1/4

CHARACTERISTICS: the device is equipped with 1 integrated auxiliary position contact or tripped relay.
NOTE: the reclosing device must be supplied at 230 V ac phase-neutral. The compact miniature circuit breakers MTC 1P+N can not be used with ReStart CM.

Electric auxiliary for ReStart devices



GW 96 014

Shunt trip release with simultaneous reclosing

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

CHARACTERISTICS: when the circuit breaker trips, thanks to GW96014, it can be reclosed remotely by means the ReStart RM TOP or the motor operating ReStart CM, even before the shunt trip release has been reclosed. ReStart RM TOP and ReStart CM activate a remote reclosing 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 or the motor operating ReStart CM. When using a release associated with ReStart RM TOP, pay attention to the system control and reclose logic set on the ReStart RM TOP.
NOTE: when using a ReStart RM TOP, the shunt trip release must be placed between the ReStart RM TOP 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. A position auxiliary contact or a fault indication switch can also be added to the left of the release GW96014.

RESTART ACCESSORIES

Accessories for ReStart devices



GW D0 951

Auxiliary contact

Code	Suitable for	Voltage operating	Current operating	No. of modules EN 50022	Pack Carton
GW D0 951	ReStart RD PRO 2P (GWD0976 and GWD0978)/ReStart Rm PRO 2P (GWD0996 and GWD0998)	5-230 V ac/dc	0,6-100 mA ac/dc	1	1/4

CHARACTERISTICS: the auxiliary contact, coupled on the right side of ReStart device, will change state to indicate that the automatic reset did not take place because there is a fault in the electrical system.
The auxiliary contact can be set in three operating modes:
- NO (default condition)
- NC
- NO as signal of handle position

NOTE: the auxiliary contacts is free potential type.



GW 90 992

BUS RS485 communication interface module

Code	Suitable for	No. of modules EN 50022	Pack Carton
GW 90 992	ReStart Autotest PRO 2P-4P/ReStart Rd PRO 2P-4P/ ReStart Rm PRO 2P-4P	1	1

CHARACTERISTICS: the BUS module, by means software TEST available on www.gewiss.com website, allows to:
- monitor the status of circuit breaker coupled with ReStart
- control AUTOTEST function remotely
- manage automatic reclosing function remotely.

APPLICATIONS: it allows the installation of ReStart device in monitoring systems with BUS RS485 communication protocol.
NOTE: in case of coupling of the BUS module only with the following codes of the ReStart devices: GWD4817P GWD4827P GWD0976 GWD0978 GWD4227P GWD4229P GWD0996 GWD0998 it is also necessary to couple the auxiliary contact GWD0951 for correct assembly.



90 ReStart



Scan the QR Code and find out all the technical informations.

SAVINGS ON MAINTENANCE COSTS



Automatic solution of involuntary disconnections from the electrical power supply and automated checking of the circuit breaker significantly reduce the need for manual intervention by technicians, which means a reduction in operating costs.

CONTINUOUS POWER SUPPLY



The ReStart devices automatically restore the power supply if the circuit breaker is unexpectedly tripped. This means less interruption of activities and increased continuity of service, especially in environments where a reliable power supply is critical.

IMPROVED SAFETY



The ReStart automatic reclosing devices prevent dangerous situations because they quickly identify faults in the electrical system and restore the power supply under optimal safety conditions only.