

**GEWISS**



# Sisteme de protectie

 *Energy Din*

**20 12**



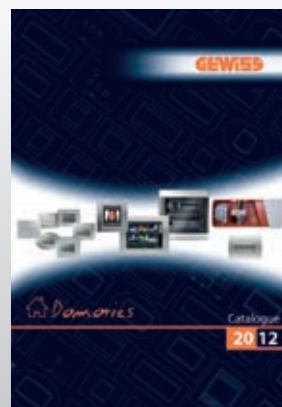
## CATALOGUL COMERCIAL

Intuitiv, succint si usor de folosit, catalogul comercial contine toate informatiile despre produsele din categoriile Domotics, EnergyDIN, EnergyBLOC, EnergyBOX si Lighting. Pe langa codurile de produs, se pot gasi tabele selective pentru fiecare gama.



## CATALOGUL LIGHTING

Conceput pentru profesionistii din domeniul iluminatului, catalogul descrie toate corpurile de iluminat GEWISS, cu ghiduri de selectie si tabele tehnice, pentru o alegere perfecta si o consultanta tehnica riguroasa.



## CATALOGUL DOMOTICS

Catalogul Domotics 2012 prezinta toate solutiile dedicate domeniului rezidential si descrie caracteristicile, aplicatiile si avantajele acestora.

## SISTEMUL DE PROTECTIE GEWISS

Sistemul de protectie GEWISS se compune din produse perfect compatibile intre ele: gama 90 ReStart (reanclansare automata), gamele 90 MCB si 90 RCD (dispozitive modulare cu protectie la curenti de defect si si curenti reziduali), gama MTX (intreruptoare de putere) si gama 47 CVX (tablouri de distributie metalice).

O gama integrata de produse ce poate satisface cele mai exigente cerinte in materie de protectie.

Avantajele GEWISS sunt urmatoarele: produse omogene si foarte practice, instalare rapida, mentenanta simplificata, design modern.



# GAMA 90 ReSTART

DISPOZITIVE CU REANCLANSARE

## Dispozitive ReStart 2P

In cazul unei declansari in urma curentului rezidual, **ReStart** reia alimentarea cu energie electrica intr-un timp scurt, dar numai dupa ce a verificat: starea sistemului (versiuni **Rd**) si prezenta unui eventual scurtcircuit (versiuni **Rm**).

Datorita unui control logic inovator, **Autotest** este capabil sa testeze functionarea dispozitivului **fara a opri alimentarea cu energie electrica**.

Mai mult, versiunile **PRO** sunt disponibile pentru monitorizarea continua a sistemului. Verificarea instalatiei electrice va fi efectuata la intervale regulate inainte de reanclansarea automata.

SINGURUL DISPOZITIV CARE TESTEAZA DIFERENTIALUL FARA SA OPREASCA ALIMENTAREA CU ENERGIE ELECTRICA.



ReSTART  
CU AUTOTEST



ReSTART RD



ReSTART RD PRO








ReSTART RM



ReSTART RM PRO

## CARACTERISTICI SI AVANTAJE

		ReSTART	ReSTART AUTOTEST	ReSTART PRO
	<p>NU REIA ALIMENTAREA CU ENERGIE IN CAZ DE DEFECT</p> <p>Siguranta operatorului este asigurata datorita verificarii instalatiei inainte de reanclansare.</p>	✓	✓	✓
	<p>TEST AUTOMAT SI FARA INTRERUPEREA ALIMENTARII PE DURATA TESTULUI</p> <p>Cu ReSTART AUTOTEST, testul diferentialului este periodic si automat, fara intreruperea alimentarii cu energie electrica, datorita unui circuit de bypass.</p>		✓	
	<p>MONITORIZAREA CONTINUA A INSTALATIEI</p> <p>In urma declansarii datorate unui curent rezidual, ReSTART PRO nu repune in functiune, dar repeta verificarea instalatiei la fiecare 2 minute si reanclanseaza cand defectul dispare.</p>			✓
	<p>SEMNALIZARE LA DISTANTA</p> <p>Un contact auxiliar permite semnalizarea la distanta in cazul in care defectul este permanent si nu se reanclanseaza.</p>		✓	✓
	<p>NUMARUL MODULELOR DIN (disjunctori inclusi)</p>	4	5	4



### ReSTART 2 POLI - TABEL SELECTIV

	RESTART CU AUTOTEST 2P	VERSIUNI CUPLATE RESTART RD 2P CU SD 2P		VERSIUNI CUPLATE RESTART RD PRO 2P CU SD 2P					
	5 mod.	4 mod.		4 mod.					
	Tip A[IR]	Tip A	Tip A[IR]	Tip A				Tip A[IR]	Tip A[S]
In[A]	I $\Delta$ n = 30 mA	I $\Delta$ n = 30 mA		I $\Delta$ n = 30 mA	I $\Delta$ n = 100 mA	I $\Delta$ n = 300 mA	I $\Delta$ n = 500 mA	I $\Delta$ n = 30 mA	I $\Delta$ n = 300 mA
25	GW 90 901 N	GW 94 817 R	GW 95 651 R	GW 94 817 P	-	GW 94 819 P	-	GW 95 651 P	-
40	GW 90 902 N	GW 94 827 R	GW 95 656 R	GW 94 827 P	GW 94 828 P	GW 94 829 P	GW 94 830 P	GW 95 656 P	GW 94 924 P
63	GW 90 903 N	GW 94 837 R	GW 95 661 R	GW 94 837 P	GW 94 838 P	GW 94 839 P	GW 94 840 P	GW 95 661 P	GW 94 934 P
80	-	-	-	GW 94 847 P	GW 94 848 P	GW 94 849 P	-	-	GW 94 944 P

	VERSIUNI CUPLATE RESTART RM 2P CU MDC 2P			VERSIUNI CUPLATE RESTART RM PRO 2P CU MDC 2P		
	Curba C - 2poli - 4 mod.					
I <sub>cn</sub> [A]	In [A]	I $\Delta$ n = 30 mA		I $\Delta$ n = 30 mA	I $\Delta$ n = 300 mA	
		Tip A	Tip A[IR]	Tip A	Tip A	Tip A[S]
4500	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	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

# GAMA 90 ReSTART

DISPOZITIVE CU REANCLANSARE

## Dispozitive ReStart 4P

Disponibil si in variante trifazate, in cazul unei declansari in urma curentului rezidual, **ReStart** reia alimentarea cu energie electrica intr-un timp scurt, dar numai dupa ce a verificat: starea sistemului (versiuni **Rd**) si prezenta unui eventual scurtcircuit (versiuni **Rm**). Toate versiunile ReStart 4P sunt versiuni **PRO** (monitorizare continua a sistemului).

Datorita unui control logic inovator, **Autotest** este capabil sa testeze functionarea dispozitivului **fara a opri alimentarea cu energie electrica**.

Mai mult, versiunile **ReStart Rm TOP**, permit urmatoarele:

- reanclansarea (cu verificarea sistemului, local sau la distanta);
- reglajul sensibilitatii;
- reglajul timpului de reanclansare.

SINGURUL DISPOZITIV CARE  
TESTEAZĂ DIFERENȚIALUL  
FĂRĂ SĂ OPREASCĂ  
ALIMENTAREA CU ENERGIE  
ELECTRICĂ.



ReSTART  
CU AUTOTEST



ReSTART RD PRO



ReSTART RM PRO








ReSTART RM TOP




ReSTART CM


## CARACTERISTICI SI AVANTAJE

		ReSTART PRO	ReSTART AUTOTEST	ReSTART TOP
	<p>PROTECTIE IN INDUSTRIA GREA</p> <p>ReSTART cu AUTOTEST este recomandat pentru aplicatii unde testarea automata si periodica a diferentialului este obligatorie.</p>		✓	
	<p>TEMPORIZAREA SI MODALITATEA REANCLANSARII AJUSTABILE</p> <p>ReSTART RM TOP permite reglajul sensibilitatii (de la 30 la 500mA), cu renclansare automata si decalaj de timp, adaptat fiecarei aplicatii.</p>			✓ (Verificarea sistemului poate fi exclusa)
	<p>MONITORIZAREA CONTINUA A INSTALATIEI</p> <p>In urma declansarii datorate unui curent rezidual, ReSTART PRO nu repune in functiune, dar repeta verificarea instalatiei la fiecare 2 minute si reanclanseaza cand defectul dispare.</p>	✓	✓	✓ (Verificarea sistemului poate fi exclusa)
	<p>SEMNALIZARE LA DISTANTA</p> <p>Un contact auxiliar permite semnalizarea la distanta in cazul in care defectul este permanent si nu se reanclanseaza.</p>	✓	✓	✓
	<p>NUMARUL MODULELOR DIN (disjunctiv inclus)</p>	3	7 (RCCB inclus)	4



NOTA: ReStart CM este un dispozitiv cu operare de la distanta fara verificarea sistemului.

## ReSTART 4 POLI - VERSIUNI CUPLATE - TABEL SELECTIV

RESTART CU AUTOTEST PRO 4P			
			
7 mod.			
Tip A[IR]			
In[A]	I $\Delta$ n = 30 mA		I $\Delta$ n = 300 mA
25	GW 90 921		GW 90 927
40	GW 90 922		GW 90 928
63	GW 90 923		GW 90 929

VERSIUNI CUPLATE RESTART RD PRO 4P CU RCCB SD 4P				
				
6 mod.		7 mod.		6 mod.
Tip AC			Tip A	
In[A]	I $\Delta$ n = 30 mA			
25	GW 94 662 P	-	GW 94 867 P	-
40	GW 94 667 P	-	GW 94 897 P	-
63	-	GW 94 757 P	-	GW 94 937 P

### ReSTART 4 POLI - TABEL SELECTIV

		COMPATIBILITATEA MODULARA A RESTART RD PRO 4P CU RCCB SD 4P							
		 3 mod. IΔn = 30 mA <b>GW 90 966</b> +				 3 mod. IΔn = 100-300-500 mA <b>GW 90 968</b> +			
		3 mod.	4 mod.	3 mod.	4 mod.	3 mod.	4 mod.	3 mod.	4 mod.
In [A]	Tip	IΔn = 30 mA		IΔn = 100 mA		IΔn = 300 mA		IΔn = 500 mA	
25	AC	GW 94 662	GW 94 697	-	GW 94 698	GW 94 664	GW 94 699	-	-
	A	GW 94 867	GW 94 877	-	GW 94 878	GW 94 869	GW 94 879	-	-
	A[IR]	-	GW 95 676	-	-	-	GW 95 678	-	-
40	AC	GW 94 667	GW 94 707	GW 94 668	GW 94 708	GW 94 669	GW 94 709	GW 94 670	GW 94 710
	A	GW 94 897	GW 94 927	GW 94 898	GW 94 928	GW 94 899	GW 94 929	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 94 758	-	GW 94 759	-	GW 94 760
	A	-	GW 94 937	-	GW 94 938	-	GW 94 939	-	GW 94 940
	A[IR]	-	GW 95 686	-	-	-	GW 95 688	-	-
	A[S]	-	-	-	-	-	GW 94 976	-	-
80	AC	-	GW 94 761	-	GW 94 771	-	GW 94 766	-	-
	A	-	GW 94 947	-	GW 94 948	-	GW 94 949	-	-
	A[S]	-	-	-	-	-	GW 94 986	-	-
100	AC	-	GW 94 777	-	GW 94 778	-	GW 94 779	-	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	-	-

NOTA: Versiunile ReSTART Rd PRO 4P sunt deasemenea compatibile si cu versiunile SD 2P, dar nu cu cele de tip B. Dispozitivul de reanclansare trebuie alimentat cu 230VAC.

\* RCCB SD cu N pe partea stanga.










### ReSTART 4 POLI - TABEL SELECTIV







COMPATIBILITATEA MODULARA A RESTART RM PRO 4P SI RM TOP 4P CU MDC 3P SI 4P							
		SAU					
ReSTART RM TOP 4P 4 mod. GW 90 893			ReSTART RM PRO 4P 3 mod. GW 90 986		ReSTART RM PRO 4P 3 mod. GW 90 988		
			+		+		
		3 mod.		4 mod.	3 mod.	4 mod.	
Icn [A]	Curba	Tip	In [A]	IΔn = 30 mA		IΔn = 300 mA	
<b>MDC 45</b>							
4500	C	AC	6	GW 94 045	GW 94 065	GW 94 055	GW 94 075
			10	GW 94 046	GW 94 066	GW 94 056	GW 94 076
			13	GW 94 051	GW 94 071	-	-
			16	GW 94 047	GW 94 067	GW 94 057	GW 94 077
			20	GW 94 048	GW 94 068	GW 94 058	GW 94 078
			25	GW 94 049	GW 94 069	GW 94 059	GW 94 079
		A	6	GW 94 050	GW 94 070	GW 94 060	GW 94 080
			10	GW 94 245	GW 94 265	GW 94 255	GW 94 275
			13	GW 94 246	GW 94 266	GW 94 256	GW 94 276
			16	GW 94 251	GW 94 271	-	-
			20	GW 94 247	GW 94 267	GW 94 257	GW 94 277
			25	GW 94 248	GW 94 268	GW 94 258	GW 94 278
			25	GW 94 249	GW 94 269	GW 94 259	GW 94 279
			32	GW 94 250	GW 94 270	GW 94 260	GW 94 280
<b>MDC 60</b>							
6000	C	AC	6	GW 94 145	GW 94 165	GW 94 155	GW 94 175
			10	GW 94 146	GW 94 166	GW 94 156	GW 94 176
			13	GW 94 151	GW 94 171	-	-
			16	GW 94 147	GW 94 167	GW 94 157	GW 94 177
			20	GW 94 148	GW 94 168	GW 94 158	GW 94 178
			25	GW 94 149	GW 94 169	GW 94 159	GW 94 179
		A	6	GW 94 150	GW 94 170	GW 94 160	GW 94 180
			10	GW 94 345	GW 94 365	GW 94 355	GW 94 375
			13	GW 94 346	GW 94 366	GW 94 356	GW 94 376
			16	GW 94 351	GW 94 371	-	-
			20	GW 94 347	GW 94 367	GW 94 357	GW 94 377
			25	GW 94 348	GW 94 368	GW 94 358	GW 94 378
	A[IR]	25	GW 94 349	GW 94 369	GW 94 359	GW 94 379	
		32	GW 94 350	GW 94 370	GW 94 360	GW 94 380	
		6	-	GW 95 815	-	-	
		10	-	GW 95 816	-	-	
		13	-	GW 95 821	-	-	
		16	-	GW 95 817	-	-	
	A[S]	20	-	GW 95 818	-	-	
		25	-	GW 95 819	-	-	
		32	-	GW 95 820	-	-	
		16	-	-	-	GW 95 857	
	B	A	20	-	-	-	GW 95 858
			25	-	-	-	GW 95 859
32			-	-	-	GW 95 860	
6			GW 95 145	GW 95 165	GW 95 155	GW 95 175	
10			GW 95 146	GW 95 166	GW 95 156	GW 95 176	
13			GW 95 151	GW 95 171	-	-	
A		16	GW 95 147	GW 95 167	GW 95 157	GW 95 177	
		20	GW 95 148	GW 95 168	GW 95 158	GW 95 178	
		25	GW 95 149	GW 95 169	GW 95 159	GW 95 179	
		32	GW 95 150	GW 95 170	GW 95 160	GW 95 180	

NOTA: Dispozitivele de reanclansare cuplate cu MDC 3P pot fi utilizate doar pentru sarcina 3P (fara N).

Dispozitivele de reanclansare sunt deasemenea compatibile cu MDC 1P+N si 2P. Dispozitivele de reanclansare trebuie alimentate cu tensiune 230V AC.

### ReSTART 4 POLI - TABEL SELECTIV



		COMPATIBILITATE MODULARA RESTART RM TOP 4P CU MCB+BLOC DIFERENTIAL RCD 3P SI 4P											
		 4 mod. <b>GW 90 893</b> + <b>MT - DISJUNCTORARE MODULARE (EN60898)</b>											
		 3 Poli 3 mod.		 4 Poli 4 mod.		 3 Poli 3 mod.		 4 Poli 4 mod.		 3 Poli 3 mod.		 4 Poli 4 mod.	
		6000		10000		25000							
		MT 60		MT 100				MT 250					
Curba	Icn [A]												
	In [A]												
C	1	GW 92 061	GW 92 081	-	-	-	-	-	-	-	-	-	-
	2	GW 92 062	GW 92 082	-	-	-	-	-	-	-	-	-	-
	3	GW 92 063	GW 92 083	-	-	-	-	-	-	-	-	-	-
	4	GW 92 064	GW 92 084	-	-	-	-	-	-	-	-	-	-
	6	GW 92 065	GW 92 085	GW 92 665	GW 92 685	GW 92 865	GW 92 885	GW 92 865	GW 92 885	GW 92 865	GW 92 885	GW 92 865	GW 92 885
	10	GW 92 066	GW 92 086	GW 92 666	GW 92 686	GW 92 866	GW 92 886	GW 92 866	GW 92 886	GW 92 866	GW 92 886	GW 92 866	GW 92 886
	13	GW 92 074	GW 92 094	GW 92 674	GW 92 694	-	-	-	-	-	-	-	-
	16	GW 92 067	GW 92 087	GW 92 667	GW 92 687	GW 92 867	GW 92 887	GW 92 867	GW 92 887	GW 92 867	GW 92 887	GW 92 867	GW 92 887
	20	GW 92 068	GW 92 088	GW 92 668	GW 92 688	GW 92 868	GW 92 888	GW 92 868	GW 92 888	GW 92 868	GW 92 888	GW 92 868	GW 92 888
	25	GW 92 069	GW 92 089	GW 92 669	GW 92 689	GW 92 869	GW 92 889	GW 92 869	GW 92 889	GW 92 869	GW 92 889	GW 92 869	GW 92 889
	32	GW 92 070	GW 92 090	GW 92 670	GW 92 690	GW 92 870	GW 92 890	GW 92 870	GW 92 890	GW 92 870	GW 92 890	GW 92 870	GW 92 890
	40	GW 92 071	GW 92 091	GW 92 671	GW 92 691	GW 92 871	GW 92 891	GW 92 871	GW 92 891	GW 92 871	GW 92 891	GW 92 871	GW 92 891
	50	GW 92 072	GW 92 092	GW 92 672	GW 92 692	GW 92 872	GW 92 892	GW 92 872	GW 92 892	GW 92 872	GW 92 892	GW 92 872	GW 92 892
63	GW 92 073	GW 92 093	GW 92 673	GW 92 693	GW 92 873	GW 92 893	GW 92 873	GW 92 893	GW 92 873	GW 92 893	GW 92 873	GW 92 893	
B	6	GW 92 265	GW 92 285	GW 92 565	GW 92 585	-	-	-	-	-	-	-	-
	10	GW 92 266	GW 92 286	GW 92 566	GW 92 586	-	-	-	-	-	-	-	-
	13	GW 92 274	GW 92 294	GW 92 567	GW 92 587	-	-	-	-	-	-	-	-
	16	GW 92 267	GW 92 287	GW 92 568	GW 92 588	-	-	-	-	-	-	-	-
	20	GW 92 268	GW 92 288	GW 92 569	GW 92 589	-	-	-	-	-	-	-	-
	25	GW 92 269	GW 92 289	GW 92 570	GW 92 590	-	-	-	-	-	-	-	-
	32	GW 92 270	GW 92 290	GW 92 571	GW 92 591	-	-	-	-	-	-	-	-
	40	GW 92 271	GW 92 291	GW 92 572	GW 92 592	-	-	-	-	-	-	-	-
	50	GW 92 272	GW 92 292	GW 92 573	GW 92 593	-	-	-	-	-	-	-	-
63	GW 92 273	GW 92 293	GW 92 574	GW 92 594	-	-	-	-	-	-	-	-	
D	1	-	-	GW 92 761	GW 92 781	-	-	-	-	-	-	-	-
	2	-	-	GW 92 762	GW 92 782	-	-	-	-	-	-	-	-
	3	-	-	GW 92 763	GW 92 783	-	-	-	-	-	-	-	-
	4	-	-	GW 92 764	GW 92 784	-	-	-	-	-	-	-	-
	6	GW 92 465	GW 92 485	GW 92 765	GW 92 785	-	-	-	-	-	-	-	-
	10	GW 92 466	GW 92 486	GW 92 766	GW 92 786	-	-	-	-	-	-	-	-
	13	GW 92 474	GW 92 494	GW 92 774	GW 92 794	-	-	-	-	-	-	-	-
	16	GW 92 467	GW 92 487	GW 92 767	GW 92 787	-	-	-	-	-	-	-	-
	20	GW 92 468	GW 92 488	GW 92 768	GW 92 788	-	-	-	-	-	-	-	-
	25	GW 92 469	GW 92 489	GW 92 769	GW 92 789	-	-	-	-	-	-	-	-
	32	GW 92 470	GW 92 490	GW 92 770	GW 92 790	-	-	-	-	-	-	-	-
40	GW 92 471	GW 92 491	GW 92 771	GW 92 791	-	-	-	-	-	-	-	-	

		BLOCURI DIFERENTIALE (EN61009 - 1 APP.G)											
		 3 Poli		 4 Poli		 3 Poli		 4 Poli		 3 Poli		 4 Poli	
		3,5 mod.											
Tip	IΔn [mA]	In≤25 A	In≤63 A	In≤25 A	In≤63 A	In≤25 A	In≤63 A	In≤25 A	In≤63 A	In≤25 A	In≤63 A	In≤25 A	In≤63 A
AC	30	GW 94 442	GW 94 448	GW 94 422	GW 94 432	GW 94 442	GW 94 448	GW 94 422	GW 94 432	GW 94 442	GW 94 448	GW 94 422	GW 94 432
	300	GW 94 443	GW 94 449	GW 94 423	GW 94 433	GW 94 443	GW 94 449	GW 94 423	GW 94 433	GW 94 443	GW 94 449	GW 94 423	GW 94 433
	500	GW 94 444	GW 94 450	GW 94 424	GW 94 434	GW 94 444	GW 94 450	GW 94 424	GW 94 434	GW 94 444	GW 94 450	GW 94 424	GW 94 434
A	30	GW 94 542	GW 94 547	GW 94 522	GW 94 532	GW 94 542	GW 94 547	GW 94 522	GW 94 532	GW 94 542	GW 94 547	GW 94 522	GW 94 532
	300	GW 94 543	GW 94 548	GW 94 523	GW 94 533	GW 94 543	GW 94 548	GW 94 523	GW 94 533	GW 94 543	GW 94 548	GW 94 523	GW 94 533
	500	GW 94 544	GW 94 549	GW 94 524	GW 94 534	GW 94 544	GW 94 549	GW 94 524	GW 94 534	GW 94 544	GW 94 549	GW 94 524	GW 94 534
A[IR]	30	GW 94 595	GW 94 586	GW 94 586	GW 94 595	GW 94 595	GW 94 586	GW 94 586	GW 94 595	GW 94 595	GW 94 586	GW 94 586	GW 94 595
A[S]	300	GW 94 598	GW 94 583	GW 94 583	GW 94 598	GW 94 598	GW 94 583	GW 94 583	GW 94 598	GW 94 598	GW 94 583	GW 94 583	GW 94 598
	1000	GW 94 600	GW 94 585	GW 94 585	GW 94 600	GW 94 600	GW 94 585	GW 94 585	GW 94 600	GW 94 600	GW 94 585	GW 94 585	GW 94 600

NOTA: Versiunile ReSTART TOP 4P sunt deasemenea compatibile cu MT si MT+BD (versiuni de 1P=N si 2P) si cu intreaga gama MTC.





Dispozitivul de reanclansare trebuie alimentat cu 230VAC.

### ReSTART CU AUTOTEST 2P - PRO 4P - DATE TEHNICE

	RESTART CU AUTOTEST 2P	RESTART CU AUTOTEST PRO 4P
		
<b>Caracteristici tehnice</b>		
Standarde:	EN 61008-1 (RCCB), CEI 23-101 (dispozitiv cu reanclansare)	
Sisteme de tratare a nului:	TT - TN	
Curent nominal (In):	(A)	25 - 40 - 63
Tensiunea nominala de lucru (Ue):	(V)	230 AC faza-nul (-15%, +10%)   400 AC (-15%, +10%)
Rezistenta nominala de lucru intre partile active si pamant (Ro):	(kΩ)	20   8 (30mA); 2.5 (300mA)
Rezistenta nominala in gol dintre partile active si pamant (Roo):	(kΩ)	70   16 (30mA); 5 (300mA)
Tensiunea nominala de izolatie (Ui):	(V)	500
Tensiunea de test a rigiditatii dielectrice intre faza si pamant:	(V)	2500 AC pentru 1 minut
Tensiunea de impuls (Uimp):	(kV)	4
Frecventa:	(Hz)	50
Tip:		A[IR]
Sensibilitate (IΔn):	(mA)	30   30, 300
Numar de poli:		2   4
Numar de module:		5   7
Capacitatea de conectare/deconectare (IΔm):	(A)	630
<b>RESTART cu AUTOTEST - Caracteristici:</b>		
Puete absorbita la mers in gol:	(VA)	4 (cos φ = 0)
Puterea absorbita pe durata anclansarii automate:	(VA)	49 (cos φ = 0.55)
Putere disipata la In:	(W)	2.2 (25A) - 5.4 (40A) - 6.2 (63A)   3.5 (25A) - 6 (40A) - 12 (63A)
Durata ciclului autotest:	(s)	< 7
Controlul inchiderii contactelor:		automat
Timp de inchidere:	(s)	< 10
Inchidere contacte:		instantaneu
Coordonare cu fuzibil IΔc:	(A)	10000 (gL 80A fuzibil)
<b>Caracteristici mecanice</b>		
Maxim operatiuni:	(operatiuni/h)	30
Operatiuni mecanice (numar de anclansari):		4000
Temperatura de lucru:	(°C)	de la -25 la +60 <sup>(1)</sup>
Sectiune terminale:	(mm <sup>2</sup> )	≤35 cablu flexibil, ≤35 cablu rigid
Cuplu de strangere:	(Nm)	2
Alimentare:		deasupra
Grad de protectie:	conexiune terminale	IP20
	frontal	IP40
Umiditate:		55°C - RH 95%
<b>Caracteristicile contactelor auxiliare:</b>		
Tip de contact:		1 Fototriac
Tensiune / frecventa:	(V/Hz)	5-230 AC/DC /50
Curent maxim de operare:	(mA)	100 cos φ = 1
Curent minim de operare:	(mA)	0.6
Regim de functionare:		AC12
Mod de operare:		NO / NC / NC+impuls
Sectiune terminale:	(mm <sup>2</sup> )	≤ 2.5
Cuplu de strangere:	(Nm)	0.4

<sup>(1)</sup> Temperatura medie zilnica ≤ +35°C

### RESTART 2P - DATE TEHNICE

	RD	RD PRO	RM	RM PRO
				
<b>Caracteristici electrice:</b>				
<b>Standarde:</b>	EN 61008-1 (RCCB), CEI 23-101 (dispozitiv cu reanclansare)		EN 61009-1 (RCBO), CEI 23-101 (dispozitiv cu reanclansare)	
<b>Sisteme de tratare a nulului:</b>	TT-TN			
<b>Tensiunea nominala de lucru (Ue):</b> (V)	230 AC faza-nul			
<b>Latime - module DIN</b>	2 + 2			
<b>Tensiune operationala:</b> (V)	De la 0.85 pana la 1.1 Ue			
<b>Tensiunea nominala de izolatie (Ui):</b> (V)	500			
<b>Tensiunea de test a rigiditatii dielectrice intre faza si pamant:</b> (V)	2500 AC pentru 1 minut			
<b>Frecventa:</b> (Hz)	50			
<b>Tensiunea de impuls (Uimp):</b> (kV)	4			
<b>Rezistenta nominala de lucru intre partile active si pamant (Ro):</b> (kΩ)	20	8 (30mA); 2.5 (100/300/500mA)	20	8 (30mA); 2.5 (300mA)
<b>Rezistenta nominala in gol dintre partile active si pamant (R00):</b> (kΩ)	70	16 (30mA); 5 (100/300/500mA)	70	16 (30mA); 5 (300mA)
<b>Rezistenta de lucru intre partile active (Rcc):</b> (Ω)	-	-	0.8	0.8
<b>Rezistenta la mers in gol intre partile active (Rcco):</b> (Ω)	-	-	1.3	1.3
<b>Puterea absorbita la mers in gol:</b> (VA)	0	17 (cos φ = 0)	0	17 (cos φ = 0)
<b>Puterea absorbita pe durata anclansarii automate:</b> (VA)	18 (cos φ = 0.46)			
<b>Puterea disipata la curent nominal:</b> (W)	Puterea disipata asociata disjuncteurului			
<b>Caracteristici mecanice:</b>				
<b>Controlul inchiderii contactelor:</b>	AUTOMAT			
<b>Timp de inchidere:</b> (s)	< 90			
<b>Resetare contact:</b>	INSTANTANEU			
<b>Intervalul minim dintre doua anclansari automate:</b> (min)	3			
<b>Partea de cuplare:</b>	DREAPTA			
<b>Operatiuni mecanice (numar de anclansari):</b>	1000			
<b>Maxim operatiuni:</b> operatiuni/h	15			
<b>Temperatura de lucru:</b> (°C)	de la -5 la +40			
<b>Grad de protectie:</b> conexiune terminale frontal	IP20 IP40			
<b>Umiditate:</b>	55°C - RH 95%			
<b>Caracteristicile contactului auxiliar*</b>				
<b>Tip de contact:</b>	-	1 Fototriac	-	1 Fototriac
<b>Tensiune / frecventa:</b> (V/Hz)	-	5 - 230 AC/DC /50	-	5 - 230 AC/DC /50
<b>Curent maxim:</b> (mA)	-	100 cos φ = 1	-	100 cos φ = 1
<b>Curent maxim de operare:</b> (mA)	-	0.6	-	0.6
<b>Mod de operare:</b>	-	NO/NC/Intermitent	-	NO/NC/Intermitent
<b>Regim de functionare:</b>	-	AC12	-	AC12
<b>Cuplu de strangere:</b> (Nm)	-	0.4	-	0.4
<b>Sectiune terminale:</b> mm <sup>2</sup>	-	≤ 2.5	-	≤ 2.5
<b>Tabel de functii</b>				
<b>Reanclansare automata in caz de declansare intempestiva:</b>	•	•	•	•
<b>Test la punere la masa:</b>	•	•	•	•
<b>Test la scurt-circuit:</b>			•	•
<b>Monitorizare continua a circuitului electric:</b>		•		•
<b>Intrerupere a operatiunii de reanclansare in caz de defect:</b>	•	•	•	•
<b>Semnalizare optica a anclansarii in progres:</b>	•	•	•	•
<b>Semnalizare optica a defectului:</b>	•	•	•	•
<b>Activare / dezactivare a functiei de anclansare:</b>	•	•	•	•
<b>Contact auxiliar pentru semnalizare la distanta:</b>		•		•
<b>Protectie electrica:</b>	PTC	PTC	PTC	PTC

\* Prin conexiunea unui releu echipat cu un contact CO, la contactul auxiliar, semnalizarea atat a modului standby cat si a reanclansarii, devine posibila.



### ReSTART 4P - DATE TEHNICE

	RD PRO	RM PRO	RM TOP	CM	
<b>Caracteristici electrice</b>					
Standarde:	CEI 23-101 (dispozitive cu reanclansare)		-	-	
Sisteme de tratare a nulului:	TT - TN		TT-TN-IT (IT fara verificare defect)	TT-TN-IT	
Tensiunea nominala de lucru (Ue):	(V)	230 AC faza-nul (-15%, +10%)			
Frecventa:	(Hz)	50			
Rezistenta nominala de lucru intre partile active si pamant (Ro):	(kΩ)	8 (30mA); 2.5 (100/300/500mA)		-	
Rezistenta nominala in gol dintre partile active si pamant (Roo):	(kΩ)	16 (30mA); 5 (100/300/500mA)		-	
Rezistenta de lucru intre partile active (Rcc):	(Ω)	-	0.3	0.3	
Rezistenta la mers in gol intre partile active (Rcco):	(Ω)	-	1.8	1.8	
Puterea absorbita la mers in gol:	(VA)	4 (cos φ = 0)	16 (cos φ = 0)	15 (cos φ = 0.06)	0 (cos φ = 0)
Puterea absorbita pe durata anclansarii automate:	(VA)	45 (cos φ = 0.55)	34 (cos φ = 0.67)	30 (cos φ = 0.64)	30 (cos φ = 0.64)
Puterea disipata la curent nominal In:	(W)	Puterea disipata asociata cu disjunctorul			
Tensiune de izolatie (Ui):		500			
Rigiditatea dielectrica intre faza si pamant:	(V)	2500 AC pentru 1 minut			
Impuls de tensiune (Uimp):	(kV)	4			
<b>Caracteristici mecanice:</b>					
Numar de module:		3	4	2	
Operatiuni mecanice (numar de anclansari):		4000	10000	10000	
Maxim operatiuni:	(operatiuni/h)	30			
Controlul inchiderii contactelor:		automat	manual/automat/ciclic/ mentinut	manual/automat/mentinut	
Timp de reanclansare:	(s)	< 10	<3 (<10 inclusiv test)	< 3	
Temperatura:	(°C)	de la -25 la +60	de la -25 la +40	de la -25 la +60	
Grad de protectie:	conexiune terminale	IP20			
	frontal	IP40			
Umiditate:		55°C - RH 95%			
<b>Caracteristicile contactului auxiliar</b>					
Tip de contact:		1 Fototriac	1 comutare	1 Fototriac	1 comutare
Curent maxim:	(A)	0.1 (AC/DC)	1.5 (AC) 0.8 (DC)	0.1 (AC/DC)	1.5 (AC) 0.8 (DC)
Tensiune:	(V)	5-230 AC/DC	230 AC 30 DC	5-230 AC/DC	230 AC 30 DC
Mod de operare:		NO / NC / intermitent	CO	NO / NC / intermitent	CO
Regim de functionare:		AC12			
Cuplu de strangere:	(Nm)	0.4			
Sectiune terminale:	(mm <sup>2</sup> )	≤ 2.5			

Tabel de functii					
Reanclansare in cazul declansarii intempestive:		•	•	•	
Tes la punere la pamant accidentala:		•	•	•	
Prag izolatie:				•	
Verificare la scurtcircuit:			•	•	
Verificarea continua a sistemului:		•	•	•	
Timp de reanclansare reglabil				•	
Mod de reanclansare reglabil:				•	
Intrerupere a operatiunii de reanclansare in caz de defect:		•	•	•	
Semnalizare optica a anclansarii in progres:		•	•	•	•
Semnalizare optica a defectului:		•	•	•	
Activare / dezactivare a functiei de anclansare:		•	•	•	•
Contact auxiliar pentru semnalizare la distanta:		•	•	•	•
Protectie electrica:		PTC	PTC	PTC	PTC

(1) Temperatura medie zilnica ≤ +35°C

(2) Dispozitivele cu gama de temperatura de lucru (de la -25 la 60 grdC) sunt disponibile la cerere.

# GAMA 90 MCB

DISJUNCTORI MODULARI PENTRU PROTECTIA CIRCUITELOR ELECTRICE

## Disjunctoare (MCB-uri) pentru protectia circuitelor

Cu disjunctoarele compacte din gama **MTC** (magnetotermic compact) se pot proteja 2 poli in acelasi modul.

Disjunctoarele din gama **MT** (magnetotermic) au un design unic si inovator, utilizand materiale de inalta calitate si sunt caracterizate prin robustețe si fiabilitate.

Disjunctoarele din gama **MTHP** (magnetotermic high-performance), de pana la 125A si capacitate de rupere de 16kA (EN60947-2), pot fi folosite atat ca intreruptoare generale cat si ca dispozitiv de protectie la scurtcircuit.



MTC

MT

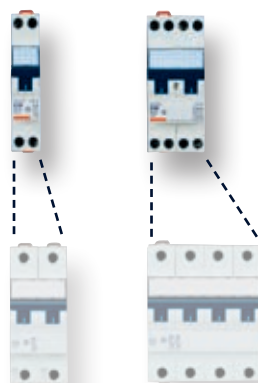
MTHP

## MCB - MTC

Disjunctoare modulare

2P

4P



**COMPACT  
GEWISS**

**Versiuni  
standard**

dimensiuni cu **50%** reduce  
**WORLDWIDE  
PATENT**

# GAMA 90 RCD

DIFERENTIALE MODULARE PENTRU PROTECTIE IMPOTRIVA CURENTULUI REZIDUAL

## RCBO-uri, RCCB-uri, si blocuri atasabile pentru protectie la curent rezidual

Cu gama compacta de RCBO-uri, **MDC** (magneto-diferential compact) se poate proteja un pol cu fiecare modul.

Este disponibiila o gama variata de disjunctoare diferentiale de inalta performanta. Gamele **SD** (diferentiale pure), blocurile atasabile **BD** (bloc diferential) si **BDHP** (blocuri diferentiale de inalta performanta) pentru disjunctoarele **MT** si **MTHP** ofera solutii rapide de asamblare si echipare.

Gama larga de versiuni:

- instantaneu: tip AC - A;
- rezistent la impuls: tip A-B;
- selectiv: tip A-B;
- cu reglaj de sensibilitate si timp de declansare: tip A.



MDC

BD si BDHP

SD

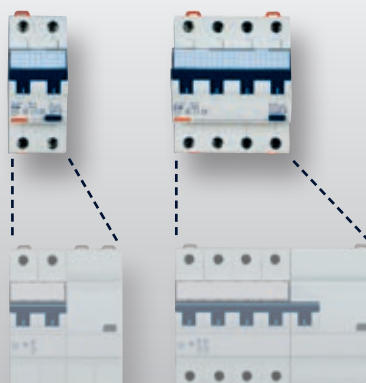
SD TIP B

## RCBO - MDC

disjunctoare diferentiale cu protectie la suprasarcina (RCBO-uri)

2P

4P



**COMPACT  
GEWISS**

**Versiuni  
standard**











dimensiuni cu **50%** reduce  
**WORLDWIDE  
PATENT**

### MCB - TABEL SELECTIV

			DISJUNCTORARE MODULARE (EN60898)										
			MTC					MT					
Icn [A]	Curba	In [A]											
			1 mod.	1 mod.	1 mod.	2 mod.	2 mod.	1 mod.	2 mod.	2 mod.	3 mod.	4 mod.	
			MTC45					MT 45					
4500	C	2		GW 90 022									
		6	GW 90 005	GW 90 025	GW 90 045	GW 90 065	GW 90 085	GW 92 105	GW 92 125	GW 92 145	GW 92 165	GW 92 185	
		10	GW 90 006	GW 90 026	GW 90 046	GW 90 066	GW 90 086	GW 92 106	GW 92 126	GW 92 146	GW 92 166	GW 92 186	
		13	GW 90 011	GW 90 031	GW 90 051	GW 90 071	GW 90 091	GW 92 107	GW 92 127	GW 92 147	GW 92 167	GW 92 187	
		16	GW 90 007	GW 90 027	GW 90 047	GW 90 067	GW 90 087	GW 92 108	GW 92 128	GW 92 148	GW 92 168	GW 92 188	
		20	GW 90 008	GW 90 028	GW 90 048	GW 90 068	GW 90 088	GW 92 109	GW 92 129	GW 92 149	GW 92 169	GW 92 189	
		25	GW 90 009	GW 90 029	GW 90 049	GW 90 069	GW 90 089	GW 92 110	GW 92 130	GW 92 150	GW 92 170	GW 92 190	
		32	GW 90 010	GW 90 030	GW 90 050	GW 90 070	GW 90 090	GW 92 111	GW 92 131	GW 92 151	GW 92 171	GW 92 191	
	40						GW 92 112	GW 92 132	GW 92 152	GW 92 172	GW 92 192		
	B	6						GW 92 305	GW 92 325	GW 92 345	GW 92 365	GW 92 385	
		10						GW 92 306	GW 92 326	GW 92 346	GW 92 366	GW 92 386	
		13						GW 92 307	GW 92 327	GW 92 347	GW 92 367	GW 92 387	
		16						GW 92 308	GW 92 328	GW 92 348	GW 92 368	GW 92 388	
		20						GW 92 309	GW 92 329	GW 92 349	GW 92 369	GW 92 389	
		25						GW 92 310	GW 92 330	GW 92 350	GW 92 370	GW 92 390	
		32						GW 92 311	GW 92 331	GW 92 351	GW 92 371	GW 92 391	
		40						GW 92 312	GW 92 332	GW 92 352	GW 92 372	GW 92 392	
	6000	C	MTC60					MT 60					
1							GW 92 001	GW 92 021	GW 92 041	GW 92 061	GW 92 081		
2							GW 92 002	GW 92 022	GW 92 042	GW 92 062	GW 92 082		
3							GW 92 003	GW 92 023	GW 92 043	GW 92 063	GW 92 083		
4							GW 92 004	GW 92 024	GW 92 044	GW 92 064	GW 92 084		
6				GW 90 225	GW 90 245	GW 90 265	GW 90 285	GW 92 005	GW 92 025	GW 92 045	GW 92 065	GW 92 085	
10				GW 90 226	GW 90 246	GW 90 266	GW 90 286	GW 92 006	GW 92 026	GW 92 046	GW 92 066	GW 92 086	
13				GW 90 231	GW 90 251	GW 90 271	GW 90 291	GW 92 014	GW 92 034	GW 92 054	GW 92 074	GW 92 094	
16				GW 90 227	GW 90 247	GW 90 267	GW 90 287	GW 92 007	GW 92 027	GW 92 047	GW 92 067	GW 92 087	
20				GW 90 228	GW 90 248	GW 90 268	GW 90 288	GW 92 008	GW 92 028	GW 92 048	GW 92 068	GW 92 088	
25				GW 90 229	GW 90 249	GW 90 269	GW 90 289	GW 92 009	GW 92 029	GW 92 049	GW 92 069	GW 92 089	
32				GW 90 230	GW 90 250	GW 90 270	GW 90 290	GW 92 010	GW 92 030	GW 92 050	GW 92 070	GW 92 090	
40							GW 92 011	GW 92 031	GW 92 051	GW 92 071	GW 92 091		
50							GW 92 012	GW 92 032	GW 92 052	GW 92 072	GW 92 092		
63							GW 92 013	GW 92 033	GW 92 053	GW 92 073	GW 92 093		
B		6		GW 90 325	GW 90 345			GW 92 205		GW 92 245	GW 92 265	GW 92 285	
		10		GW 90 326	GW 90 346			GW 92 206		GW 92 246	GW 92 266	GW 92 286	
		13		GW 90 327	GW 90 347			GW 92 214		GW 92 254	GW 92 274	GW 92 294	
		16		GW 90 328	GW 90 348			GW 92 207		GW 92 247	GW 92 267	GW 92 287	
		20		GW 90 329	GW 90 349			GW 92 208		GW 92 248	GW 92 268	GW 92 288	
		25		GW 90 330	GW 90 350			GW 92 209		GW 92 249	GW 92 269	GW 92 289	
		32		GW 90 331	GW 90 351			GW 92 210		GW 92 250	GW 92 270	GW 92 290	
		40						GW 92 211		GW 92 251	GW 92 271	GW 92 291	
		50						GW 92 212		GW 92 252	GW 92 272	GW 92 292	
		63						GW 92 213		GW 92 253	GW 92 273	GW 92 293	
		D	6						GW 92 405		GW 92 445	GW 92 465	GW 92 485
			10						GW 92 406		GW 92 446	GW 92 466	GW 92 486
13								GW 92 414		GW 92 454	GW 92 474	GW 92 494	
16								GW 92 407		GW 92 447	GW 92 467	GW 92 487	
20								GW 92 408		GW 92 448	GW 92 468	GW 92 488	
25							GW 92 409		GW 92 449	GW 92 469	GW 92 489		
32							GW 92 410		GW 92 450	GW 92 470	GW 92 490		
40							GW 92 411		GW 92 451	GW 92 471	GW 92 491		

\* Disjunctorare modulare cu N pe partea stanga.

### MCB - TABEL SELECTIV






			DISJUNCTORARE MODULARE (EN60898)									
			MTC		MT				MTHP			
												
Icn [A]	Curba	In [A]	1P+N	2P	1P	2P	3P	4P	1P	2P	3P	4P
			1 mod.	1 mod.	1 mod.	2 mod.	3 mod.	4 mod.	1.5 mod.	3 mod.	4.5 mod.	6 mod.
			MTC100		MT 100							
10000	C	6	GW 90 425	GW 90 445	GW 92 605	GW 92 645	GW 92 665	GW 92 685				
		10	GW 90 426	GW 90 446	GW 92 606	GW 92 646	GW 92 666	GW 92 686				
		13	GW 90 431	GW 90 451	GW 92 614	GW 92 654	GW 92 674	GW 92 694				
		16	GW 90 427	GW 90 447	GW 92 607	GW 92 647	GW 92 667	GW 92 687				
		20	GW 90 428	GW 90 448	GW 92 608	GW 92 648	GW 92 668	GW 92 688				
		25	GW 90 429	GW 90 449	GW 92 609	GW 92 649	GW 92 669	GW 92 689				
		32	GW 90 430	GW 90 450	GW 92 610	GW 92 650	GW 92 670	GW 92 690				
		40			GW 92 611	GW 92 651	GW 92 671	GW 92 691				
	50			GW 92 612	GW 92 652	GW 92 672	GW 92 692					
	63			GW 92 613	GW 92 653	GW 92 673	GW 92 693					
	B	6				GW 92 505	GW 92 545	GW 92 565	GW 92 585			
		10				GW 92 506	GW 92 546	GW 92 566	GW 92 586			
		13				GW 92 507	GW 92 547	GW 92 567	GW 92 587			
		16				GW 92 508	GW 92 548	GW 92 568	GW 92 588			
		20				GW 92 509	GW 92 549	GW 92 569	GW 92 589			
		25				GW 92 510	GW 92 550	GW 92 570	GW 92 590			
		32				GW 92 511	GW 92 551	GW 92 571	GW 92 591			
		40				GW 92 512	GW 92 552	GW 92 572	GW 92 592			
	50				GW 92 513	GW 92 553	GW 92 573	GW 92 593				
	63				GW 92 514	GW 92 554	GW 92 574	GW 92 594				
	D	1				GW 92 701	GW 92 741	GW 92 761	GW 92 781			
		2				GW 92 702	GW 92 742	GW 92 762	GW 92 782			
		3				GW 92 703	GW 92 743	GW 92 763	GW 92 783			
		4				GW 92 704	GW 92 744	GW 92 764	GW 92 784			
		6				GW 92 705	GW 92 745	GW 92 765	GW 92 785			
		10				GW 92 706	GW 92 746	GW 92 766	GW 92 786			
		13				GW 92 714	GW 92 754	GW 92 774	GW 92 794			
		16				GW 92 707	GW 92 747	GW 92 767	GW 92 787			
		20				GW 92 708	GW 92 748	GW 92 768	GW 92 788			
		25				GW 92 709	GW 92 749	GW 92 769	GW 92 789			
		32				GW 92 710	GW 92 750	GW 92 770	GW 92 790			
		40				GW 92 711	GW 92 751	GW 92 771	GW 92 791			
10000 (16kA 947-2)	C	80							GW 93 307	GW 93 327	GW 93 337	GW 93 347
		100							GW 93 308	GW 93 328	GW 93 338	GW 93 348
		125							GW 93 309	GW 93 329	GW 93 339	GW 93 349
	D	63							GW 93 356	GW 93 376	GW 93 386	GW 93 396
		80							GW 93 357	GW 93 377	GW 93 387	GW 93 397
100							GW 93 358	GW 93 378	GW 93 388	GW 93 398		
12500	C	50			GW 92 812	GW 92 852	GW 92 872	GW 92 892				
		63			GW 92 813	GW 92 853	GW 92 873	GW 92 893				
15000	C	32			GW 92 810	GW 92 850	GW 92 870	GW 92 890				
		40			GW 92 811	GW 92 851	GW 92 871	GW 92 891				
20000	C	25			GW 92 809	GW 92 849	GW 92 869	GW 92 889				
25000	C	6			GW 92 805	GW 92 845	GW 92 865	GW 92 885				
		10			GW 92 806	GW 92 846	GW 92 866	GW 92 886				
		16			GW 92 807	GW 92 847	GW 92 867	GW 92 887				
		20			GW 92 808	GW 92 848	GW 92 868	GW 92 888	GW 93 201	GW 93 221	GW 93 231	GW 93 241
		25							GW 93 202	GW 93 222	GW 93 232	GW 93 242
		32							GW 93 203	GW 93 223	GW 93 233	GW 93 243
		40							GW 93 204	GW 93 224	GW 93 234	GW 93 244
		50							GW 93 205	GW 93 225	GW 93 235	GW 93 245
63							GW 93 206	GW 93 226	GW 93 236	GW 93 246		









## RCBO - TABEL SELECTIV

				DISJUNCTOARE DIFERENTIALE CU PROTECTIE LA SUPRACURENT (EN61009-1)							
				$I\Delta n = 30mA$				$I\Delta n = 300mA$			
$I_{cn}$ [A]	Curba	Tip	$I_n$ [A]	2 mod.	2 mod.	3 mod.	4 mod.	2 mod.	2 mod.	3 mod.	4 mod.
<b>MDC 45</b>											
4500	C	AC	6	GW 94 005	GW 94 025	GW 94 045	GW 94 065	GW 94 015	GW 94 035	GW 94 055	GW 94 075
			10	GW 94 006	GW 94 026	GW 94 046	GW 94 066	GW 94 016	GW 94 036	GW 94 056	GW 94 076
			13	GW 94 011	GW 94 031	GW 94 051	GW 94 071				
			16	GW 94 007	GW 94 027	GW 94 047	GW 94 067	GW 94 017	GW 94 037	GW 94 057	GW 94 077
			20	GW 94 008	GW 94 028	GW 94 048	GW 94 068	GW 94 018	GW 94 038	GW 94 058	GW 94 078
			25	GW 94 009	GW 94 029	GW 94 049	GW 94 069	GW 94 019	GW 94 039	GW 94 059	GW 94 079
		A	32	GW 94 010	GW 94 030	GW 94 050	GW 94 070	GW 94 020	GW 94 040	GW 94 060	GW 94 080
			6	GW 94 205	GW 94 225	GW 94 245	GW 94 265	GW 94 215	GW 94 235	GW 94 255	GW 94 275
			10	GW 94 206	GW 94 226	GW 94 246	GW 94 266	GW 94 216	GW 94 236	GW 94 256	GW 94 276
			13	GW 94 211	GW 94 231	GW 94 251	GW 94 271				
			16	GW 94 207	GW 94 227	GW 94 247	GW 94 267	GW 94 217	GW 94 237	GW 94 257	GW 94 277
			20	GW 94 208	GW 94 228	GW 94 248	GW 94 268	GW 94 218	GW 94 238	GW 94 258	GW 94 278
			25	GW 94 209	GW 94 229	GW 94 249	GW 94 269	GW 94 219	GW 94 239	GW 94 259	GW 94 279
			32	GW 94 210	GW 94 230	GW 94 250	GW 94 270	GW 94 220	GW 94 240	GW 94 260	GW 94 280
<b>MDC 60</b>											
6000	C	AC	6	GW 94 105	GW 94 125	GW 94 145	GW 94 165	GW 94 115	GW 94 135	GW 94 155	GW 94 175
			10	GW 94 106	GW 94 126	GW 94 146	GW 94 166	GW 94 116	GW 94 136	GW 94 156	GW 94 176
			13	GW 94 111	GW 94 131	GW 94 151	GW 94 171				
			16	GW 94 107	GW 94 127	GW 94 147	GW 94 167	GW 94 117	GW 94 137	GW 94 157	GW 94 177
			20	GW 94 108	GW 94 128	GW 94 148	GW 94 168	GW 94 118	GW 94 138	GW 94 158	GW 94 178
			25	GW 94 109	GW 94 129	GW 94 149	GW 94 169	GW 94 119	GW 94 139	GW 94 159	GW 94 179
		A	32	GW 94 110	GW 94 130	GW 94 150	GW 94 170	GW 94 120	GW 94 140	GW 94 160	GW 94 180
			6	GW 94 305	GW 94 325	GW 94 345	GW 94 365	GW 94 315	GW 94 335	GW 94 355	GW 94 375
			10	GW 94 306	GW 94 326	GW 94 346	GW 94 366	GW 94 316	GW 94 336	GW 94 356	GW 94 376
			13	GW 94 311	GW 94 331	GW 94 351	GW 94 371				
			16	GW 94 307	GW 94 327	GW 94 347	GW 94 367	GW 94 317	GW 94 337	GW 94 357	GW 94 377
			20	GW 94 308	GW 94 328	GW 94 348	GW 94 368	GW 94 318	GW 94 338	GW 94 358	GW 94 378
		A(IR)	25	GW 94 309	GW 94 329	GW 94 349	GW 94 369	GW 94 319	GW 94 339	GW 94 359	GW 94 379
			32	GW 94 310	GW 94 330	GW 94 350	GW 94 370	GW 94 320	GW 94 340	GW 94 360	GW 94 380
			6		GW 95 805		GW 95 815				
			10		GW 95 806		GW 95 816				
			13		GW 95 811		GW 95 821				
			16		GW 95 807		GW 95 817				
	A(S)	20		GW 95 808		GW 95 818					
		25		GW 95 809		GW 95 819					
		32		GW 95 810		GW 95 820					
		16						GW 95 847		GW 95 857	
	B	A	20						GW 95 848		GW 95 858
			25						GW 95 849		GW 95 859
			32						GW 95 850		GW 95 860
			6	GW 95 105	GW 95 125	GW 95 145	GW 95 165	GW 95 115	GW 95 135	GW 95 155	GW 95 175
			10	GW 95 106	GW 95 126	GW 95 146	GW 95 166	GW 95 116	GW 95 136	GW 95 156	GW 95 176
			13	GW 95 111	GW 95 131	GW 95 151	GW 95 171				
		A	16	GW 95 107	GW 95 127	GW 95 147	GW 95 167	GW 95 117	GW 95 137	GW 95 157	GW 95 177
			20	GW 95 108	GW 95 128	GW 95 148	GW 95 168	GW 95 118	GW 95 138	GW 95 158	GW 95 178
25			GW 95 109	GW 95 129	GW 95 149	GW 95 169	GW 95 119	GW 95 139	GW 95 159	GW 95 179	
32			GW 95 110	GW 95 130	GW 95 150	GW 95 170	GW 95 120	GW 95 140	GW 95 160	GW 95 180	




### RCBO - TABEL SELECTIV

				DISJUNCTORI DIFERENTIALE CU PROTECTIE LA SUPRACURENT (EN61009-1)					
				IΔn = 30mA		IΔn = 100mA		IΔn = 300mA	
									
Icn [A]	Curba	Tip	In [A]	2 mod.	2 mod.	2 mod.	2 mod.	2 mod.	
				MDC 100					
10000	C	AC	6	GW 95 005	GW 95 025			GW 95 015	GW 95 035
			10	GW 95 006	GW 95 026			GW 95 016	GW 95 036
			13	GW 95 011	GW 95 031				
			16	GW 95 007	GW 95 027			GW 95 017	GW 95 037
			20	GW 95 008	GW 95 028			GW 95 018	GW 95 038
			25	GW 95 009	GW 95 029			GW 95 019	GW 95 039
		32	GW 95 010	GW 95 030			GW 95 020	GW 95 040	
		A	6	GW 95 205	GW 95 225	GW 95 785		GW 95 215	GW 95 235
			10	GW 95 206	GW 95 226	GW 95 786		GW 95 216	GW 95 236
			13	GW 95 211	GW 95 231	GW 95 791			
			16	GW 95 207	GW 95 227	GW 95 787		GW 95 217	GW 95 237
			20	GW 95 208	GW 95 228	GW 95 788		GW 95 218	GW 95 238
	25		GW 95 209	GW 95 229	GW 95 789		GW 95 219	GW 95 239	
	A(IR)	6	GW 95 210	GW 95 230	GW 95 790		GW 95 220	GW 95 240	
		10		GW 95 825					
		13		GW 95 826					
		16		GW 95 827					
		20		GW 95 828					
		25		GW 95 829					
	B	A	6		GW 95 325	GW 95 795			GW 95 335
			10		GW 95 326	GW 95 796			GW 95 336
			13		GW 95 331	GW 95 801			
			16		GW 95 327	GW 95 797			GW 95 337
			20		GW 95 328	GW 95 798			GW 95 338
25				GW 95 329	GW 95 799			GW 95 339	
A(IR)		32		GW 95 330	GW 95 800			GW 95 340	
		6		GW 95 835					
		10		GW 95 836					
		13		GW 95 841					
		16		GW 95 837					
		20		GW 95 838					
		25		GW 95 839					
		32		GW 95 840					

### BLOCURI ATASABILE - TABEL SELECTIV

		BLOCURI DIFERENTIALE ATASABILE(EN61009 - 1 APP. G)								
		BD - Blocuri pentru MCB MT				BDHP - Blocuri pentru MCB MTHP				
										
Tip	IΔn [mA]	2 mod.		3,5 mod.		3,5 mod.		4 mod.	6 mod.	6 mod.
		In≤25 A	In≤63 A	In≤25 A	In≤63 A	In≤25 A	In≤63 A	In≤125 A	In≤125 A	In≤125 A
AC	10	GW 94 401								
	30	GW 94 402	GW 94 412	GW 94 442	GW 94 448	GW 94 422	GW 94 432	GW 95 406	GW 95 416	GW 95 426
	100							GW 95 407	GW 95 417	GW 95 427
	300	GW 94 403	GW 94 413	GW 94 443	GW 94 449	GW 94 423	GW 94 433	GW 95 408	GW 95 418	GW 95 428
	500	GW 94 404	GW 94 414	GW 94 444	GW 94 450	GW 94 424	GW 94 434			
A	30	GW 94 502	GW 94 512	GW 94 542	GW 94 547	GW 94 522	GW 94 532	GW 95 436	GW 95 446	GW 95 456
	100							GW 95 437	GW 95 447	GW 95 457
	300	GW 94 503	GW 94 513	GW 94 543	GW 94 548	GW 94 523	GW 94 533	GW 95 438	GW 95 448	GW 95 458
	500	GW 94 504	GW 94 514	GW 94 544	GW 94 549	GW 94 524	GW 94 534			
A(IR)	30	GW 94 566		GW 94 595		GW 94 586				
A[S]	300	GW 94 563		GW 94 598		GW 94 583		GW 95 468	GW 95 478	GW 95 488
	1000	GW 94 565		GW 94 600		GW 94 585		GW 95 470	GW 95 480	GW 95 490
A reg.	300-3000									GW 95 512

### RCCB - TABEL SELECTIV

			DIFERENTIALE PURE (EN61008-1)		
			SD		
			2P	4P	
					
In [A]	Tip	IΔn [mA]	2 mod.	3 mod.	4 mod.
25	AC	10	GW 94 616		
		30	GW 94 617	GW 94 662	GW 94 697
		100	GW 94 618		GW 94 698
		300	GW 94 619	GW 94 664	GW 94 699
	A	10	GW 94 816	GW 94 866	
		30	GW 94 817	GW 94 867	GW 94 877
		100	GW 94 818		GW 94 878
	A[IR]	300	GW 94 819	GW 94 869	GW 94 879
		30	GW 95 651		GW 95 676
	B[IR]	300			GW 95 678
		30	GW 95 701*		GW 95 716
		300			GW 95 718
40	AC	30	GW 94 627	GW 94 667	GW 94 707
		100	GW 94 628	GW 94 668	GW 94 708
		300	GW 94 629	GW 94 669	GW 94 709
		500	GW 94 630	GW 94 670	GW 94 710
	A	30	GW 94 827	GW 94 897	GW 94 927
		100	GW 94 828	GW 94 898	GW 94 928
		300	GW 94 829	GW 94 899	GW 94 929
		500	GW 94 830	GW 94 900	GW 94 930
	A[IR]	30	GW 95 656		GW 95 681
		300			GW 95 683
	A[S]	300	GW 94 924		GW 94 966
	B[IR]	30	GW 95 706*		GW 95 721
		300			GW 95 723
	63	AC	30	GW 94 790	
100			GW 94 791		GW 94 758
300			GW 94 792		GW 94 759
500			GW 94 789		GW 94 760
A		30	GW 94 837		GW 94 937
		100	GW 94 838		GW 94 938
		300	GW 94 839		GW 94 939
		500	GW 94 840		GW 94 940
A[IR]		30	GW 95 661		GW 95 686
		300			GW 95 688
A[S]		300	GW 94 934		GW 94 976
B[IR]		30			GW 95 726
		300			GW 95 728
		500			GW 95 729
B[S]	300			GW 95 737	
80	AC	30	GW 94 793		GW 94 761
		100	GW 94 794		GW 94 771
		300	GW 94 795		GW 94 766
	A	30	GW 94 847		GW 94 947
		100	GW 94 848		GW 94 948
		300	GW 94 849		GW 94 949
	A[S]	300	GW 94 944		GW 94 986
	B[IR]	30			GW 95 731
		300			GW 95 733
	B[S]	300			GW 95 743
100	AC	30	GW 94 656		GW 94 777
		100	GW 94 657		GW 94 778
		300	GW 94 658		GW 94 779
		500			GW 94 780
	A	30	GW 94 856		GW 94 957
		100			GW 94 958
		300	GW 94 858		GW 94 959
		500			GW 94 960
A[IR]	30	GW 95 671		GW 95 696	
	300			GW 95 698	
A[S]	300	GW 94 954		GW 94 996	
125	AC	30			GW 95 601
		300			GW 95 603
		500			GW 95 604
	A	30			GW 95 606
		300			GW 95 608
		500			GW 95 609

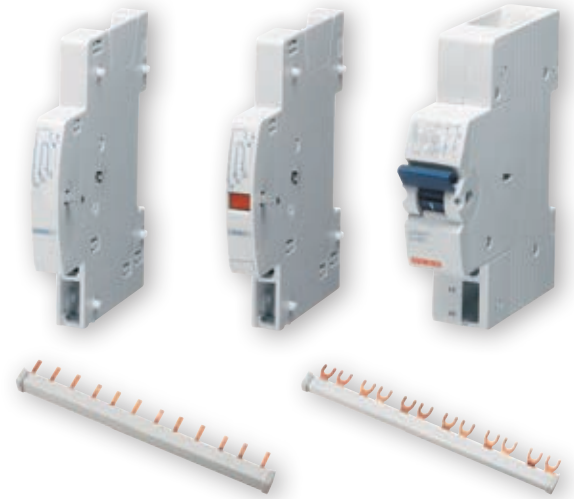
\* 4 module

\*\* Cu N situat pe partea stanga

### Auxiliare electrice si piepteni

**Contactele auxiliare** si **bobinele de declansare** sunt compatibile cu toate disjunctoarele modulare si diferentiale si pot oferi o gama variata de solutii. Gama este completata cu accesorii speciale pentru protectia la curent rezidual.

**Pieptenii** reduc timpul alocat cablarii. Pieptenii sunt disponibili in variante de 12 module pana la un metru lungime.



<p><b>CONTACT AUXILIAR</b> GW 96 001</p> <p><b>CONTACT AUXILIAR CU SEMNALIZARE DEFECT</b> GW 96 006</p> <p><b>CONTACT CONFIGURABIL (AUX./ DEFECT)</b> GW 96 009</p>	<p><b>BOBINA DE DECLANSARE</b> GW 96 011 (12-48V AC/DC) GW 96 012 (110-125V DC) (110-415V AC)</p>	<p><b>RELEU DE MINIMA TENSIUNE</b> GW 96 016 (230V AC) GW 96 017 (24V AC/DC) GW 96 018 (48V AC/DC)</p>	<p><b>MTC</b></p> <p><b>MT</b></p> <p><b>MTHP</b></p> <p><b>MDC</b></p>	➔	<p><b>SD 4P</b></p>	<p><b>CONTACT AUXILIAR</b> GW 96 003 (SD 25-100A)</p> <p><b>CONTACT AUXILIAR</b> GW 96 005 (SD 125A)</p> <p><b>CONTACT AUXILIAR CU SEMNALIZARE DEFECT</b> GW 96 004 (SD 25-100A)</p> <p><b>DECLANSARE DE LA DISTANTA</b> GW 96 015 (SD 25-100A)</p>	<p><b>SD TIP B</b></p> <p><b>CONTACT AUXILIAR</b> GW 96 007</p>
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		PIEPTENI CU PINI		PIEPTENI FURCULITA		TERMINALE IZOLATE PENTRU PIEPTENI CU PINI	CAPETE TERMINALE	CAPETE DE PROTECTIE
		12 mod.	1 metru	12 mod.	1 metru			5 piese
Pentru MT-MDC	1P	GW 96 984	GW 96 988	GW 96 992	GW 96 996	GW 96 961	GW 96 963	GW 96 967
	2P	GW 96 985	GW 96 989	GW 96 993	GW 96 997		GW 96 964	
	3P	GW 96 986	GW 96 990	GW 96 994	GW 96 998		GW 96 965	
	4P	GW 96 987	GW 96 991	GW 96 995	GW 96 999		GW 96 966	
		13 mod.	1 metru					5 piese
Pentru MTC	1P (culoare gri)	GW 96 500	-	-	-	GW 96 503	-	GW 96 967
	1P (culoare albastru)	GW 96 501	-	-	-		-	
	1P (culoare alb)	-	GW 96 988	-	-		-	
		12 mod.	12 mod.					5 piese
Pentru SD 2P	pana la 10 MTC 1P+N/2P	GW 96 504		-		-	-	GW 96 967
Pentru SD 4P 3mod.	pana la 9MT 1P / 3MT 3P	-		GW 96 969		-	-	



### Protectii

Aceasta gama de accesorii garanteaza o protectie excelenta a sarcinilor si instalatiilor electrice. Gama include:

- noile descarcatoare de supratensiune LST;
- portfuzibili (versiuni noi pana la 100A si versiune compacta);
- relee diferentiale cu transformator toroidal separat;
- disjunctoare protectie motor.



PORTFUZIBIL COMPACT



SPD LST

DESCARCATOARE LST						
TIP 1+2			TIP 2			
	1P+N	3P+N	1P		1P+N	3P+N
	230V	400V	230V	400V	230V	400V
<b>I<sub>max</sub> (kA)</b>	4 mod.	8 mod.	1 mod.		2 mod.	4 mod.
<b>20</b>	-	-	-	-	GW D6 407	GW D6 409
<b>40</b>	-	-	GW D6 411	GW D6 413	GW D6 417	GW D6 419
			GW D6 412*		GW D6 418*	GW D6 420*
<b>100 (I<sub>imp</sub>=25kA)</b>	GW D6 404*	GW D6 405*	-	-	-	-

\* Cu contact auxiliar

DISJUNCTOARE PENTRU MOTOR	
<b>I<sub>n</sub> (A)</b>	3 mod.
0.1 - 0.16	GW 96 751
0.16 - 0.25	GW 96 752
0.25 - 0.4	GW 96 753
0.4 - 0.63	GW 96 754
0.63 - 1	GW 96 755
1 - 1.6	GW 96 756
1.6 - 2.5	GW 96 757
2.5 - 4	GW 96 758
4 - 6.3	GW 96 759
6.3 - 10	GW 96 760
10 - 16	GW 96 761
16 - 25	GW 96 762
25 - 40	GW 96 763

PORTFUZIBILI PENTRU CURENT ALTERNATIV						
<b>I<sub>n</sub> (A)</b>	<b>Diametru fuzibil (mm)</b>	<b>1P</b>	<b>1P+N</b>	<b>2P</b>	<b>3P</b>	<b>3P+N</b>
20	8,3x31,5	GW 96 206	GW 96 216	GW 96 301	GW 96 306	GW 96 311
		1 mod.	2 mod.	2 mod.	3 mod.	4 mod.
32	10,3x38	GW 96 205	GW 96 215	GW 96 302	GW 96 307	GW 96 312
		1 mod.	2 mod.	2 mod.	3 mod.	4 mod.
50	14x51	-	GW 96 220	-	-	-
		-	1 mod.	-	-	-
100	22x58	GW 96 207	GW 96 217	GW 96 303	GW 96 308	GW 96 313
		1,5 mod.	3 mod.	3 mod.	4,5 mod.	6 mod.
100	22x58	-	GW 96 218	-	-	GW 96 314
		-	4 mod.	-	-	8 mod.

RELEE DIFERENTIALE	
GW 96 331	3 mod.
+	

TRANSFORMATOARE DE CURENT		
<b>Diametru (mm)</b>	<b>I<sub>n</sub> max (A)</b>	<b>Code</b>
35*	125	GW 96 332
80*	400	GW 96 333
110*	630	GW 96 334
110**	630	GW 96 336
210*	1600	GW 96 335
210**	1600	GW 96 337

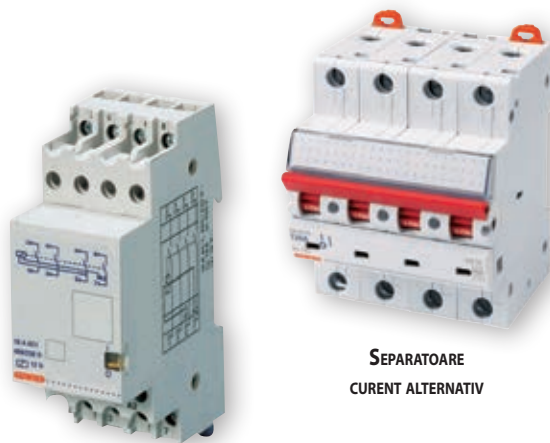
\* transformator de curent cu miez solid

\*\* transformator de curent cu intrefier

### Control

Accesoriile de control al sarcinilor electrice: conectare / deconectare si separare galvanica, sunt compuse din:

- separatoare;
- relee de impuls;
- relee de control;
- contactoare;
- teleruptoare.



SEPARATOARE  
CURENT ALTERNATIV

RELEE DE IMPULS

SEPARATOARE DE SARCINA (AC)				
	1P	2P	3P	4P
In (A)	1 mod.	2 mod.	3 mod.	4 mod.
32	GW 96 104	GW 96 114	GW 96 124	GW 96 134
40	GW 96 105	GW 96 115	GW 96 125	GW 96 135
63	GW 96 146	GW 96 156	GW 96 166	GW 96 176
80	GW 96 147	GW 96 157	GW 96 167	GW 96 177
100	GW 96 148	GW 96 158	GW 96 168	GW 96 178
125	GW 96 149	GW 96 159	GW 96 169	GW 96 179

TELERUPTOARE						
	In (A)	16				
	Tensiune pe bobina (V)	8 AC	12 AC	24 AC	230 AC	
TIP DE CONTACTE	1NO	1 mod.	GW 96 604	GW 96 601	GW 96 602	GW 96 603
	2NO	1 mod.	-	-	-	GW 96 615
	4NO	2 mod.	-	GW 96 616	GW 96 617	GW 96 618
	1NO+1NC	1 mod.	-	GW 96 606	GW 96 607	GW 96 608
	1CO	1 mod.	GW 96 921	GW 96 922	GW 96 923	GW 96 924
				GW 96 925*	GW 96 926*	
	2CO	1 mod.	GW 96 614	GW 96 611	GW 96 612	GW 96 913
					GW 96 932*	

RELEE DE CONTROL			
Monitorizare curent	Monitorizare faza	Protectie la minima tensiune monofazat AC/DC	Protectie la minima tensiune trifazat AC
GW 96 906	GW 96 907	GW 96 908	GW 96 909

\* Tensiune continua DC

CONTACTOARE								
	In (A)	20		24	32	40	63	
	Tensiune pe bobina (V)	24 AC	230 AC	24 AC-DC	230 AC-DC	230 AC	230 AC-DC	
TIP DE CONTACTE	1NO	-	GW 96 701	-	-	-	-	
		1 mod.	-	-	-	-		
	2NO	GW 96 702	GW 96 704	-	-	GW 96 792	GW 96 721	GW 96 731
		1 mod.	1 mod.	-	-	1 mod.	3 mod.	3 mod.
	3NO	-	GW 96 706	-	GW 96 715	-	GW 96 722	GW 96 732
		2 mod.	2 mod.	-	-	3 mod.	3 mod.	
	3NO+1NC	-	-	-	GW 96 716	-	-	-
	4NO	2 mod.	GW 96 708	GW 96 711	GW 96 712	GW 96 796	GW 96 723	GW 96 733
			2 mod.	2 mod.	2 mod.	2 mod.	3 mod.	3 mod.
	2NC	1 mod.	GW 96 705	-	-	-	-	-
1 mod.			-	-	-	-	-	
4NC	-	-	-	GW 96 713	-	-	-	
		2 mod.	-	-	-	-	-	
1NO+1NC	-	GW 96 703	-	-	-	-	-	
		1 mod.	-	-	-	-	-	

RELEE DE IMPULS						
	In (A)	16				
	Tensiune pe bobina (V)	8 AC	12 AC	24 AC	230 AC	
TIP DE CONTACTE	1NO	1 mod.	GW 96 624	GW 96 621	GW 96 622	GW 96 623
		1 mod.	-	GW 96 636	GW 96 637	GW 96 638
	2NO	2 mod.	-	-	GW 96 662**	-
			-	-	GW 96 664***	GW 96 663**
	3NO	2 mod.	-	-	GW 96 667**	GW 96 668**
	4NO	2 mod.	-	GW 96 641	GW 96 642	GW 96 643
			-	GW 96 631	GW 96 632	GW 96 633
	1NO+1NC	1 mod.	-	-	GW 96 627	GW 96 628
			-	-	GW 96 630*	GW 96 629**
	1CO	1 mod.	GW 96 625	GW 96 626	GW 96 657**	GW 96 658**
GW 96 659***						
GW 96 673						
2CO	1 mod.	-	-	GW 96 676*	GW 96 674	

\* Tensiune continua DC

\*\* Cu control central

\*\*\* Tensiune continua cu control central

### Programare

Datorita versatilitatii, accesoriile de programare, permit comanda si controlul sarcinilor in cel mai variat mod, oferind maxima flexibilitate.



PROGRAMATOARE ORARE DIGITALE



CELULE FOTOELECTRICE

PROGRAMATOARE ORARE							
Analogic				Digitale (zilnice si saptamanale)			
GW 96 830	1 NO (zilnic)	fara incarcare rezerva	1 mod.	GW 96 844	1 CO	2 mod.	
GW 96 831	1 CO (zilnic)	incarcare rezerva 150h	3 mod.	GW 96 845	2 CO	2 mod.	
GW 96 832	1 CO (saptamanal)	incarcare rezerva 150h	3 mod.	GW 96 846	1 CO	1 mod.	
GW 96 836	1 NO (zilnic)	incarcare rezerva 50h	1 mod.				

PROGRAMATOARE ASTRONOMICHE		CELULE FOTOELECTRICE	
Nu este necesar senzor extern		Senzor extern inclus	
GW 96 821		GW 96 891	1 CO 3 mod.
		GW 96 892	1 NO 1 mod.

TEMPORIZATOARE	
Temporizator multifunctional	Temporizator asimetric
GW 96 814	GW 96 815

AUTOMATE DE SCARA	
Cu avertizare	Fara avertizare
GW 96 813	GW 96 810

### Dispozitive de masura

Gama de elemente de masura analogice si digitale, permite monitorizarea cat mai exacta a parametrilor retelei electrice. Astfel se pot primi informatii cat mai exacte despre valorile curentului, tensiunii, energiei, etc.



MULTIMETRU



ANALIZOARE DE FAZA

VOLTMETRE				
Analogic		Digital		
GW 96 861	0-300V	3 mod.	GW 96 867	2 mod.
GW 96 862	0-500V			

AMPERMETRE				
Analogic		Digital		
GW 96 871	Direct (max 10A)	3 mod.	GW 96 879	2 mod.
GW 96 872	Direct (max 20A)			
GW 96 873	Direct (max 30A)			
GW 96 878	CT / 5A			

CONTOARE PASANTE				
Trifazat		Monofazat		
GW 96 887	Direct (max 30A)	6 mod.	GW 96 889	1 mod.
GW 96 888	CT / 5A		GW 96 890	2 mod.

DISPOZITIVE DE MASURA DIGITALE			
Analizor de faza		Multimetru	
GW 96 899	4 mod.	GW 96 897	2 mod.

### Semnalizare

Accesoriile de semnalizare permit semnalizarea optica (cu LED-uri) si acustica a alarmelor, prezentei tensiunii, curentului, etc.



LAMPI DE SEMNALIZARE SI BUTOANE



SONERII SI BUZZER-E

#### LAMPI DE SEMNALIZARE



1 mod.	Un (V)	
Culoare LED	12-24-48 AC/DC	230 AC
Rosu	GW 96 586	GW 96 581
Verde	GW 96 587	GW 96 582
Galben	GW 96 588	GW 96 583
Albastru	GW 96 589	GW 96 584
Alb	GW 96 590	GW 96 585
Verde si rosu	-	GW 96 591
Triplu rosu	-	GW 96 592

#### BUTOANE CU LED



1 mod.	Un (V)		
Tip de contact	Culoare LED	12-24-48 AC/DC	230 AC
1 NO	Verde	GW 96 570	GW 96 566
1 NC	Rosu	GW 96 571	GW 96 567
1 NO + 1 NC	Verde	-	GW 96 568
1 NO + 1 NC	Rosu	-	GW 96 569

#### SONERII - BUZZER-E



Un (V)		12	230
Sonerii	1 mod.	GW 96 401	-
	2 mod.	-	GW 96 402
Buzzer-e	1 mod.	GW 96 406	-
	2 mod.	-	GW 96 407
Sonerie+ Buzzer-e+ Transformatoare	2 mod.	-	GW 96 411

#### TRANSFORMATOARE PT SONERII



A (VA)	Tensiunea in secundar (V)		Nr. de module
	12	24	
5	GW 96 421	GW 96 422	2 mod.
10	GW 96 423	GW 96 424	
15	GW 96 425	GW 96 426	
30	GW 96 431	GW 96 432	3 mod.
40	GW 96 433	GW 96 434	

#### TRANSFORMATOARE DE SIGURANTA



A (VA)	Tensiunea in secundar (V)	Nr. de module
	24	
15	GW 96 321	3 mod.
25	GW 96 322	
40	GW 96 323	4 mod.
63	GW 96 324	6 mod.

## Produse pentru sisteme fotovoltaice

Gama 90 PV include 6 versiuni de tablouri pentru siruri fotovoltaice, capabile sa satisfaca o serie de cerinte ale sistemelor fotovoltaice din sectorul industrial sau comercial. Fiecare versiune de tablou are un numar corespunzator de siruri si un anumit nivel de tensiune/sir.

In completarea tablourilor pentru sirurile fotovoltaice, gama ofera deasemenea si dispozitive modulare specifice pentru aplicatii de curent continuu DC, cum ar fi:

- separatoare
- descaratoare
- fuzibili si portfuzibili



TABLOURI PENTRU SIRURI DE PANOURI



SEPARATOARE DC



DESCARCATOARE LST DC



PORTFUZIBILI DC



### Conexiune rapida

Tablourile electrice sunt prevazute cu presetupe si cleme sir, pentru conexiuni sigure si rapide. Presetupele sunt prevazute ca accesorii, astfel incat racordurile pot fi facute conform cerintelor individuale (sus, jos, lateral). Ele sunt prevazute cu terminale electroizolante si cu bara de nul.



### Testate si certificate

Tablourile pentru sirurile fotovoltaice sunt testate in laboratoarele GEWISS si satisfac toate cerintele reglementate de standardele EN61439-1 si 61439-2.



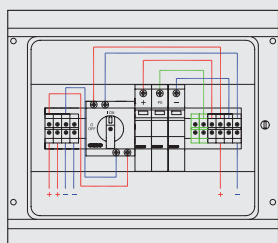
### Gama destinata diverselor aplicatii

Gama 90 PV contine 6 versiuni diferite pentru a satisface variatele cerinte din instalatiile fotovoltaice. Cele 6 versiuni se disting prin numarul de siruri alocate si nivelele de tensiune.



## TABLOURI PENTRU SIRURI FOTOVOLTAICE - DATE TEHNICE

### 2 SIRURI - 600V DC - 25A GW D9901



Tablou cablat pentru conexiunea a 1 sau 2 siruri de panouri fotovoltaice la invertor. El include:

- cofret etans
- 1 separator rotativ 2poli
- 1 descarcator de supratensiune cu cartus

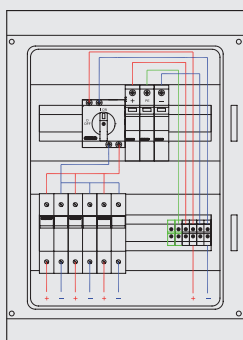
#### DATE TEHNICE

Standarde:	EN 61439-1 si EN 61439-2
Numar de module:	1x12
Grad de protectie:	IP65
Clasa de izolatie:	Clasa II
Tensiunea nominala a separatorului (Ue):	600V DC
Curentul nominal al separatorului (In):	25A
Tensiunea operationala a SPD (Un):	600V DC
Sectiune cablu:	6mm <sup>2</sup>

ECHIPARE TABLOU: presetupe (incluse separat) si bara de nul.

NOTA: fuzibilii NU sunt inclusi.

### 3 SIRURI - 600V DC - 25A GW D9902



Tablou cablat pentru conexiunea a 3 siruri de panouri fotovoltaice la invertor. El include:

- cofret etans
- 1 separator rotativ 2poli
- 1 descarcator de supratensiune cu cartus
- 3 portfuzibili

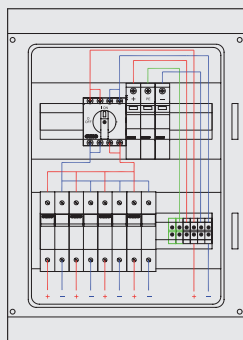
#### DATE TEHNICE

Standarde:	EN 61439-1 si EN 61439-2
Numar de module:	2x12
Grad de protectie:	IP65
Clasa de izolatie:	Clasa II
Tensiunea nominala a separatorului (Ue):	600V DC
Curentul nominal al separatorului (In):	25A
Tensiunea operationala a SPD (Un):	600V DC
Sectiune cablu:	6mm <sup>2</sup>

ECHIPARE TABLOU: presetupe (incluse separat) si bara de nul.

NOTA: fuzibilii NU sunt inclusi.

### 4 SIRURI - 600V DC - 50A GW D9903



Tablou cablat pentru conexiunea a 4 siruri de panouri fotovoltaice la invertor. El include:

- cofret etans
- 1 separator rotativ 4poli
- 1 descarcator de supratensiune cu cartus
- 4 portfuzibili

#### DATE TEHNICE

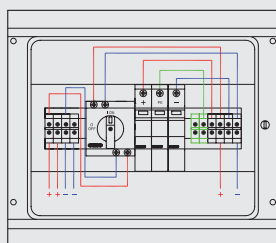
Standarde:	EN 61439-1 si EN 61439-2
Numar de module:	2x12
Grad de protectie:	IP65
Clasa de izolatie:	Clasa II
Tensiunea nominala a separatorului (Ue):	600V DC
Curentul nominal al separatorului (In):	50A (2 poli in paralel)
Tensiunea operationala a SPD (Un):	600V DC
Sectiune cablu:	6mm <sup>2</sup>

ECHIPARE TABLOU: presetupe (incluse separat) si bara de nul.

NOTA: fuzibilii NU sunt inclusi.

## TABLOURI PENTRU SIRURI FOTOVOLTAICE - DATE TEHNICE

### 2 SIRURI - 800V DC - 20A GW D9906



Tablou cablat pentru conexiunea a 1 sau 2 siruri de panouri fotovoltaice la invertor. El include:

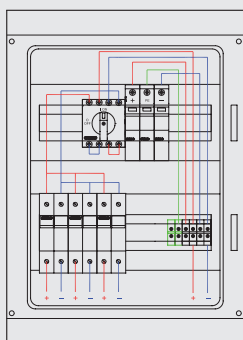
- cofret etans
- 1 separator rotativ 2poli
- 1 descarcator de supratensiune cu cartus

#### DATE TEHNICE

Standarde:	EN 61439-1 si EN 61439-2
Numar de module:	1x12
Grad de protectie:	IP65
Clasa de izolatie:	Clasa II
Tensiunea nominala a separatorului (Ue):	800V DC
Curentul nominal al separatorului (In):	20A
Tensiunea operationala a SPD (Un):	1000V DC
Sectiune cablu:	6mm <sup>2</sup>

ECHIPARE TABLOU: presetupe (incluse separat) si bara de nul.  
NOTA: fuzibilii NU sunt inclusi.

### 3 SIRURI - 1000V DC - 32A GW D9907



Tablou cablat pentru conexiunea a 3 siruri de panouri fotovoltaice la invertor. El include:

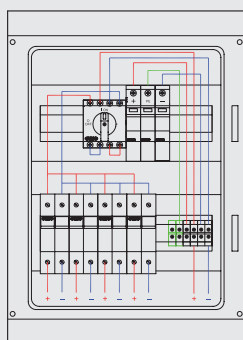
- cofret etans
- 1 separator rotativ 4poli
- 1 descarcator de supratensiune cu cartus
- 3 portfuzibili

#### DATE TEHNICE

Standarde:	EN 61439-1 si EN 61439-2
Numar de module:	2x12
Grad de protectie:	IP65
Clasa de izolatie:	Clasa II
Tensiunea nominala a separatorului (Ue):	1000V DC
Curentul nominal al separatorului (In):	32A (4 poli in serie)
Tensiunea operationala a SPD (Un):	1000V DC
Sectiune cablu:	6mm <sup>2</sup>

ECHIPARE TABLOU: presetupe (incluse separat) si bara de nul.  
NOTA: fuzibilii NU sunt inclusi.

### 4 SIRURI - 1000V DC - 32A GW D9908



Tablou cablat pentru conexiunea a 4 siruri de panouri fotovoltaice la invertor. El include:

- cofret etans
- 1 separator rotativ 2poli
- 1 descarcator de supratensiune cu cartus
- 4 portfuzibili

#### DATE TEHNICE

Standarde:	EN 61439-1 and EN 61439-2
Numar de module:	2x12
Grad de protectie:	IP65
Clasa de izolatie:	Clasa II
Tensiunea nominala a separatorului (Ue):	1000V DC
Curentul nominal al separatorului (In):	32A (4 poli in serie)
Tensiunea operationala a SPD (Un):	1000V DC
Sectiune cablu:	6mm <sup>2</sup>

ECHIPARE TABLOU: presetupe (incluse separat) si bara de nul.  
NOTA: fuzibilii NU sunt inclusi.

## DISPOZITIVE MODULARE DE CURENT CONTINUU - DATE TEHNICE

### SEPARATOARE



Separatoare de curent continuu compacte, pentru sisteme fotovoltaice pana la 32 A 1000V DC

#### DATE TEHNICE

Standard:	EN 60947-3
Regim de functionare:	DC21B / DC22B
Tensiunea de izolatie (Ui):	1000V
Tensiunea de impuls (Uimp):	8 kV
Temperatura de lucru:	-40 to +65°C
Sectiune maxima:	16mm <sup>2</sup> (solid sau flexibil) 10mm <sup>2</sup> (flexibil, cu terminale)

Cod	Module	Poli	Regim de functionare	Tensiunea operationala (Ue)		
				600V DC	800V DC	1000V DC
				Curentul nominal (In)		
GW 96 186	3.5	2	DC21B	25A	20A	11A
			DC22B	6A	2,5A	1,5A
GW 96 187	3.5	4	DC21B	32A	32A	32A
			DC22B	27,5A	12,5A	10A

### DESCARCATOARE LST



Descarcatoare cu cartus pentru aplicatii fotovoltaice pana la 1000V DC

#### DATE TEHNICE

Standard:	EN 61643-11
Tip:	Tip 2 (8/20μs)
Curent de descarcare (In):	20kA
Curent de descarcare maxim (Imax):	40kA
Protectie back-up:	Daca Icc > 100 DC, se prevede fuzibil tip gPV =< 20A Daca Icc < 100A nu mai este necesara protectie

Cod	Tensiunea nominala Operationala (Un)	Tensiunea maxima in regim permanent (Uc)	Nivelul maxim de tensiune la In (Up)	Module
GW D6 426	600V DC	700V DC	≤ 2.6kV	3
GW D6 428	1000V DC	1170V DC	≤ 4kV	3

#### CARTUSE DE SCHIMB

- GW D6 446 compatibile cu SPD GW D6 426
- GW D6 448 compatibile cu SPD GW D6 428

### PORTFUZIBILI



Portfuzibili pentru protectia si izolatia sirurilor fotovoltaice.

#### DATE TEHNICE

Standard:	EN 60947-3
Regim de functionare:	DC20B
Tensiunea nominala operationala (Ue):	1000V DC
Curent nominal (In):	20A
Putere maxima disipata:	3W

Cod	Poli	Module
GW 96 226	1	1
GW 96 227	2	2

### FUZIBILI



Fuzibilia sunt de tip gPV, conform aplicatiilor fotovoltaice.

#### DATE TEHNICE

Standard:	IEC 60269-6
Dimensiuni:	10.3 x 38mm
Tip:	gPV
Tensiunea nominala operationala (Ue):	1000V DC
Capacitate de rupere:	30kA DC

Cod	Curent nominal (In)
GW 72 131	6
GW 72 132	8
GW 72 133	10
GW 72 134	12
GW 72 135	16
GW 72 136	20

# GAMA MTX

INTRERUPTOARE DE PUTERE CAPSULATE

## MCCB-uri de putere

Gama **MTX** este solutia ideala pentru instalatii industriale si aplicatii comerciale avansate, unde se cer curenti mari si capacitati de rupere de valori ridicate.

Gama ofera o paleta completa de accesorii perfect integrate in tablourile CVX 47.



MTX 160c / MTXM 160c



MTX 160



MTX 250 / MTXM 250



MTX 320 / MTXE 320 / MTXM 320  
MTX 630 / MTXE 630 / MTXM 630



MTX 1000 / MTXE 1000 /  
MTXM 1000



MTSE 1600 / MTSM 1600

## GAMA 97 MSS

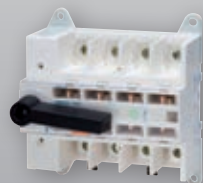
SEPARATOARE DE SARCINA ROTATIVE PANA LA 630A

## Separatoare de sarcina rotative

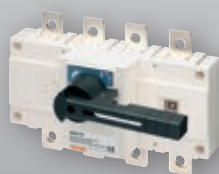
Gama **MSS** de separatoare de sarcina garanteaza o securitate sporita si o inalta performanta atat in AC cat si in DC.



MSS 125



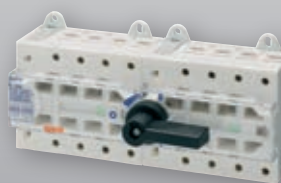
MSS 160



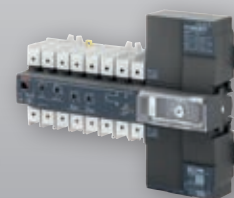
MSS 250



MSS 630




SEPARATOR DE SARCINA CU 3 POZITII  
(I O II)




MSS 160 ATS

### MTX - TABEL SELECTIV


		MTX 160C						
								
	Declansare	In [A]	B (16kA)		C (25kA)		N (36kA)	
			3P	4P	3P	4P	3P	4P
MAGNETO-TERMIC	TM1 Valoare de prag magnetica 10 lth	16	GW D7 001	GW D7 021				
		20	GW D7 002	GW D7 022				
		25	GW D7 003	GW D7 023	GW D7 041	GW D7 051		
		32	GW D7 004	GW D7 024	GW D7 042	GW D7 052	GW D7 061	GW D7 071
		40	GW D7 005	GW D7 025	GW D7 043	GW D7 053	GW D7 062	GW D7 072
		50	GW D7 006	GW D7 026	GW D7 044	GW D7 054	GW D7 063	GW D7 073
		63	GW D7 007	GW D7 027	GW D7 045	GW D7 055	GW D7 064	GW D7 074
		80	GW D7 008	GW D7 028	GW D7 046	GW D7 056	GW D7 065	GW D7 075
		100	GW D7 009	GW D7 029	GW D7 047	GW D7 057	GW D7 066	GW D7 076
		125	GW D7 010	GW D7 030	GW D7 048	GW D7 058	GW D7 067	GW D7 077
		160	GW D7 011	GW D7 031	GW D7 049	GW D7 059	GW D7 068	GW D7 078

NOTA: pentru fixare pe profil DIN EN50022, se va folosi GW D8 261


		MTX/E 160							
									
	Declansare	In [A]	N (36kA)		S (50kA)		H (70kA)		
			3P	4P	3P	4P	3P	4P	
MAGNETO-TERMIC	TM1 Valoare de prag magnetica 10 lth	10	GW D7 931	GW D7 936					
		16	GW D7 932	GW D7 937					
		20	GW D7 933	GW D7 938					
		25	GW D7 934	GW D7 939					
		25	GW D7 081	GW D7 091					
	PROTECTIE GENERATOR TMG Valoare de prag 3 lth	40	GW D7 082	GW D7 092					
		63	GW D7 083	GW D7 093					
		80	GW D7 084	GW D7 094					
		100	GW D7 085	GW D7 095					
		125	GW D7 086	GW D7 096					
ELECTRONIC	SEP/1	I	10	GW D7 146	GW D7 156	GW D7 166	GW D7 176	GW D7 186	GW D7 196
			25	GW D7 147	GW D7 157	GW D7 167	GW D7 177	GW D7 187	GW D7 197
			63	GW D7 148	GW D7 158	GW D7 168	GW D7 178	GW D7 188	GW D7 198
			100	GW D7 149	GW D7 159	GW D7 169	GW D7 179	GW D7 189	GW D7 199
		LS/I	10	GW D7 141	GW D7 151	GW D7 161	GW D7 171	GW D7 181	GW D7 191
			25	GW D7 142	GW D7 152	GW D7 162	GW D7 172	GW D7 182	GW D7 192
			63	GW D7 143	GW D7 153	GW D7 163	GW D7 173	GW D7 183	GW D7 193
			100	GW D7 144	GW D7 154	GW D7 164	GW D7 174	GW D7 184	GW D7 194
	DOAR MAGNETIC	PROTECTIE MOTOR M Valoare de prag 13 lth	1	GW D7 101		GW D7 121			
			1.6	GW D7 102		GW D7 122			
			2	GW D7 103		GW D7 123			
			2.5	GW D7 104		GW D7 124			
			3.2	GW D7 105		GW D7 125			
			4	GW D7 106		GW D7 126			
			5	GW D7 107		GW D7 127			
			6.5	GW D7 108		GW D7 128			
8.5	GW D7 109			GW D7 129					
11	GW D7 110			GW D7 130					
12.5	GW D7 111			GW D7 131					
Valoare de prag 6-12 lth	20		GW D7 112		GW D7 132				
	32		GW D7 113		GW D7 133				
	52		GW D7 114		GW D7 134				
	80	GW D7 115		GW D7 135					
		100	GW D7 116		GW D7 136				

NOTA: pentru fixare pe profil DIN EN50022, se va folosi GW D8261


### MTX - TABEL SELECTIV


		MTX 250				
						
	Declansare	In [A]	N (36kA)		S (50kA)	
			3P	4P	3P	4P
MAGNETO-TERMIC	TM1 Valoare de prag magnetica 10 lth	63	GW D7 201	GW D7 211	GW D7 221	GW D7 231
		80	GW D7 202	GW D7 212	GW D7 222	GW D7 232
		100	GW D7 203	GW D7 213	GW D7 223	GW D7 233
		125	GW D7 204	GW D7 214	GW D7 224	GW D7 234
		160	GW D7 205	GW D7 215	GW D7 225	GW D7 235
		200	GW D7 206	GW D7 216	GW D7 226	GW D7 236
MAGNETO-TERMIC	PROTECTIE GENERATOR TMG Valoare de prag 3 lth	63	GW D7 241	GW D7 251	GW D7 261	GW D7 271
		80	GW D7 242	GW D7 252	GW D7 262	GW D7 272
		100	GW D7 243	GW D7 253	GW D7 263	GW D7 273
		125	GW D7 244	GW D7 254	GW D7 264	GW D7 274
		160	GW D7 245	GW D7 255	GW D7 265	GW D7 275
		200	GW D7 246	GW D7 256	GW D7 266	GW D7 276
DOAR MAGNETIC	PROTECTIE MOTOR M Valoare de prag 6-12 lth	100	GW D7 281		GW D7 291	
		125	GW D7 282		GW D7 292	
		160	GW D7 283		GW D7 293	
		200	GW D7 284		GW D7 294	


NOTA: pentru fixare pe profil DIN EN50022, se va folosi GW D8 262

		MTX/E 320									
											
	Declansare	In [A]	N (36kA)		S (50kA)		H (70kA)		L (120kA)		
			3P	4P	3P	4P	3P	4P	3P	4P	
MAGNETO-TERMIC	TM2 Valoare de prag magnetica 5-10 lth	100	GW D7 301	GW D7 311	GW D7 321	GW D7 331					
		125	GW D7 302	GW D7 312	GW D7 322	GW D7 332					
		160	GW D7 303	GW D7 313	GW D7 323	GW D7 333					
		200	GW D7 304	GW D7 314	GW D7 324	GW D7 334					
		250	GW D7 305	GW D7 315	GW D7 325	GW D7 335					
ELECTRONIC	SEP/1	I	100	GW D7 344	GW D7 364	GW D7 384	GW D7 404	GW D7 424	GW D7 444	GW D7 464	GW D7 484
			160	GW D7 345	GW D7 365	GW D7 385	GW D7 405	GW D7 425	GW D7 445	GW D7 465	GW D7 485
			250	GW D7 346	GW D7 366	GW D7 386	GW D7 406	GW D7 426	GW D7 446	GW D7 466	GW D7 486
			320	GW D7 354	GW D7 374	GW D7 394	GW D7 414	GW D7 434	GW D7 454	GW D7 474	GW D7 494
		LS/I	100	GW D7 341	GW D7 361	GW D7 381	GW D7 401	GW D7 421	GW D7 441	GW D7 461	GW D7 481
			160	GW D7 342	GW D7 362	GW D7 382	GW D7 402	GW D7 422	GW D7 442	GW D7 462	GW D7 482
			250	GW D7 343	GW D7 363	GW D7 383	GW D7 403	GW D7 423	GW D7 443	GW D7 463	GW D7 483
			320	GW D7 353	GW D7 373	GW D7 393	GW D7 413	GW D7 433	GW D7 453	GW D7 473	GW D7 493
	SEP/2	LSI	100	GW D7 347	GW D7 367	GW D7 387	GW D7 407	GW D7 427	GW D7 447	GW D7 467	GW D7 487
			160	GW D7 348	GW D7 368	GW D7 388	GW D7 408	GW D7 428	GW D7 448	GW D7 468	GW D7 488
			250	GW D7 349	GW D7 369	GW D7 389	GW D7 409	GW D7 429	GW D7 449	GW D7 469	GW D7 489
			320	GW D7 355	GW D7 375	GW D7 395	GW D7 415	GW D7 435	GW D7 455	GW D7 475	GW D7 495
		LSIG	100	GW D7 350	GW D7 370	GW D7 390	GW D7 410	GW D7 430	GW D7 450	GW D7 470	GW D7 490
			160	GW D7 351	GW D7 371	GW D7 391	GW D7 411	GW D7 431	GW D7 451	GW D7 471	GW D7 491
			250	GW D7 352	GW D7 372	GW D7 392	GW D7 412	GW D7 432	GW D7 452	GW D7 472	GW D7 492
			320	GW D7 356	GW D7 376	GW D7 396	GW D7 416	GW D7 436	GW D7 456	GW D7 476	GW D7 496

**MTX - TABEL SELECTIV**





			MTX/E 630									
												
	Declarare	In [A]	N (36kA)		S (50kA)		H (70kA)		L (120kA)			
			3P	4P	3P	4P	3P	4P	3P	4P		
MAGNETO-TERMIC	TM2 Valoare de prag magnetica 5-10 lth	320	GW D7 501	GW D7 506	GW D7 511	GW D7 516	GW D7 521	GW D7 526				
		400	GW D7 502	GW D7 507	GW D7 512	GW D7 517	GW D7 522	GW D7 527				
		500	GW D7 503	GW D7 508	GW D7 513	GW D7 518	GW D7 523	GW D7 528				
ELECTRONIC	SEP/1	I	400	GW D7 534	GW D7 554	GW D7 574	GW D7 594	GW D7 614	GW D7 634	GW D7 654	GW D7 674	
			630	GW D7 540	GW D7 560	GW D7 580	GW D7 600	GW D7 620	GW D7 640	GW D7 660	GW D7 680	
		LS/I	400	GW D7 532	GW D7 552	GW D7 572	GW D7 592	GW D7 612	GW D7 632	GW D7 652	GW D7 672	
			630	GW D7 539	GW D7 559	GW D7 579	GW D7 599	GW D7 619	GW D7 639	GW D7 659	GW D7 679	
		SEP/2	LSI	400	GW D7 536	GW D7 556	GW D7 576	GW D7 596	GW D7 616	GW D7 636	GW D7 656	GW D7 676
				630	GW D7 541	GW D7 561	GW D7 581	GW D7 601	GW D7 621	GW D7 641	GW D7 661	GW D7 681
	LSIG		400	GW D7 538	GW D7 558	GW D7 578	GW D7 598	GW D7 618	GW D7 638	GW D7 658	GW D7 678	
		630	GW D7 542	GW D7 562	GW D7 582	GW D7 602	GW D7 622	GW D7 642	GW D7 662	GW D7 682		

			MTX/E 1000									
												
	Declarare	In [A]	N (36kA)		S (50kA)		H (70kA)		L (100kA)			
			3P	4P	3P	4P	3P	4P	3P	4P		
MAGNETO-TERMIC	TM2 Valoare de prag magnetica 5-10 lth	630	GW D7 701	GW D7 706	GW D7 710	GW D7 716	GW D7 721	GW D7 726				
		800	GW D7 702	GW D7 707	GW D7 711	GW D7 717	GW D7 722	GW D7 727				
ELECTRONIC	SEP/1	I	630	GW D7 732	GW D7 752	GW D7 772	GW D7 792	GW D7 812	GW D7 832	GW D7 852	GW D7 872	
			800	GW D7 736	GW D7 756	GW D7 776	GW D7 796	GW D7 816	GW D7 836	GW D7 856	GW D7 876	
		LS/I	1000	GW D7 740	GW D7 760	GW D7 780	GW D7 800	GW D7 820	GW D7 840	GW D7 860	GW D7 880	
			630	GW D7 731	GW D7 751	GW D7 771	GW D7 791	GW D7 811	GW D7 831	GW D7 851	GW D7 871	
		SEP/2	LSI	800	GW D7 735	GW D7 755	GW D7 775	GW D7 795	GW D7 815	GW D7 835	GW D7 855	GW D7 875
				1000	GW D7 739	GW D7 759	GW D7 779	GW D7 799	GW D7 819	GW D7 839	GW D7 859	GW D7 879
	LSIG		630	GW D7 733	GW D7 753	GW D7 773	GW D7 793	GW D7 813	GW D7 833	GW D7 853	GW D7 873	
			800	GW D7 737	GW D7 757	GW D7 777	GW D7 797	GW D7 817	GW D7 837	GW D7 857	GW D7 877	
				1000	GW D7 741	GW D7 761	GW D7 781	GW D7 801	GW D7 821	GW D7 841	GW D7 861	GW D7 881
				630	GW D7 734	GW D7 754	GW D7 774	GW D7 794	GW D7 814	GW D7 834	GW D7 854	GW D7 874
			800	GW D7 738	GW D7 758	GW D7 778	GW D7 798	GW D7 818	GW D7 838	GW D7 858	GW D7 878	
			1000	GW D7 742	GW D7 762	GW D7 782	GW D7 802	GW D7 822	GW D7 842	GW D7 862	GW D7 882	





			MTSE 1600							
										
	Declarare	In [A]	S (50kA)		H (65kA)		L (100kA)			
			3P	4P	3P	4P	3P	4P		
ELECTRONIC	SEP/A	I	1250	GW 97 601	GW 97 607	GW 97 625	GW 97 631	GW 97 649	GW 97 655	
			1600	GW 97 602	GW 97 608	GW 97 626	GW 97 632	GW 97 650	GW 97 656	
		LI	1250	GW 97 604	GW 97 610	GW 97 628	GW 97 634	GW 97 652	GW 97 658	
			1600	GW 97 605	GW 97 611	GW 97 629	GW 97 635	GW 97 653	GW 97 659	
		SEP/B	LSI	1250	GW 97 613	GW 97 619	GW 97 637	GW 97 643	GW 97 661	GW 97 667
				1600	GW 97 614	GW 97 620	GW 97 638	GW 97 644	GW 97 662	GW 97 668
	LSIG		1250	GW 97 616	GW 97 622	GW 97 640	GW 97 646	GW 97 664	GW 97 670	
			1600	GW 97 617	GW 97 623	GW 97 641	GW 97 647	GW 97 665	GW 97 671	





### MTXM - TABEL SELECTIV

		MTXM							
		MTXM 160c		MTXM 250		MTXM 320		MTXM 400	
									
SEPARATOARE	In [A]	3P	4P	3P	4P	3P	4P	3P	4P
	160	GW D7 901	GW D7 902						
	250			GW D7 903	GW D7 904				
	320					GW D7 905	GW D7 906		
	400							GW D7 907	GW D7 908



NOTA: fixarea pe profil DIN EN50022 se face cu accesorii speciale

		MTXM							
		MTXM 630		MTXM 800		MTXM 1000		MTSM 1600	
									
SEPARATOARE	In [A]	3P	4P	3P	4P	3P	4P	3P	4P
	630	GW D7 909	GW D7 910						
	800			GW D7 911	GW D7 912				
	1000					GW D7 913	GW D7 914		
	1250							GW 97 715	GW 97 718
	1600							GW 97 716	GW 97 719

### ACCESORII PENTRU MTX - TABEL SELECTIV

		BLOCURI DIFERENTIALE				
		FORMA "L"			MONTAJ JOS	
						
Compatibil cu		MTX/M 160c	MTX/E 160	MTX/M 250	MTX/E/M 320	MTXM 400 - MTX/E/M 630
Versiuni		Doar pentru intreruptoare de 4P			Doar pentru intreruptoare de 4P	
Instantaneu		GW D8 242	GW D8 244	GW D8 246	-	-
Ajustabil		GW D8 241 (inferior) GW D8 243	GW D8 245	GW D8 247	GW D8 248 (pana la 500A)	GW D8 249 (pana la 500A)

NOTA: fixarea pe profil DIN EN50022 se face cu accesorii speciale

		DECLANSATOARE					
		BOBINA DE DECLANSARE			RELEU DE MINIMA TENSIUINE		
							
Compatibil cu		MTX/E/M 160c - 160 - 250	MTX/E/M 320 - 1000	MTSE/M 1600	MTX/E/M 160c - 160 - 250	MTX/E/M 320 - 1000	MTSE/M 1600
Tensiune de alimentare							
12V DC		GW D8 101	-	-	-	-	-
24-30V AC/DC		GW D8 102	GW D8 107	GW 98 260	GW D8 117	GW D8 122	GW 98 281 (ac) GW 98 288 (dc)
48-60V AC/DC		GW D8 103	GW D8 108	GW 98 261	GW D8 118	GW D8 123	GW 98 282 (ac) GW 98 289 (dc)
127V AC - 125V DC		GW D8 104	GW D8 109	GW 98 263	GW D8 119	GW D8 124	GW 98 284 (ac) GW 98 291 (dc)
240V AC - 250V DC		GW D8 105	GW D8 110	GW 98 264	GW D8 120	GW D8 125	GW 98 285 (ac) GW 98 292 (dc)
380 - 400V AC		GW D8 106	GW D8 111	GW 98 265	GW D8 121	GW D8 126	GW 98 286 (ac)

### MSS - TABEL SELECTIV

In [A]	MSS - SEPARATOARE DE SARCINA									
	MSS 125		MSS 160		MSS 250		MSS 630		MSS 125 SEPARATOR CU 3 POZITII (I O II)	MSS ATS 160 SEPARATOR CU 3 POZITII AUTOMAT
	3P	4P	3P	4P	3P	4P	3P	4P	4P	4P
63	GW 97 721	GW 97 724								
100	GW 97 722	GW 97 725								
125	GW 97 723	GW 97 726							GW 97 761	
160			GW 97 727	GW 97 728						GW 97 767
250					GW 97 729	GW 97 730				
400							GW 97 731	GW 97 733		
630							GW 97 732	GW 97 734		

### ACCESORII PENTRU MSS - TABEL SELECTIV

#### MANETA ROTATIVA CU FIXARE PE USA - IP65



MSS 125 - MSS 160		MSS 250 - MSS 630		MSS 125 - SEPARATOR CU 3 POZITII (I O II)
Maner negru	Maner rosu	Maner negru	Maner rosu	Maner negru
GW 98 521	GW 98 524	GW 98 522	GW 98 525	GW 98 523

Toate manerele rotative includ tija de transmisie.

#### CONTACTE AUXILIARE



MSS 125 - MSS 160	MSS 250 - MSS 630	MSS 125 - SEPARATOR CU 3 POZITII (I O II)	MSS 160 ATS - SEPARATOR AUTOMAT CU 3 POZITII
GW 98 514	GW 98 515	GW 98 516	GW 97 774

#### TERMINALE ELECTROIZOLANTE (1COD=1PIESA)



MSS 160	MSS 250		MSS 630		MSS 160 ATS - SEPARATOR AUTOMAT CU 3 POZITII
3P - 4P	3P	4P	3P	4P	4P
GW 98 508	GW 98 509	GW 98 510	GW 98 511	GW 98 512	GW 97 773

# GAMA 47 CVX 160i

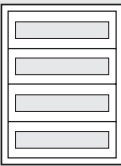
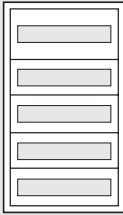
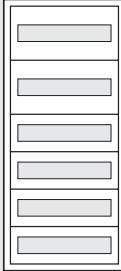



TABLOURI DE DISTRIBUTIE INCASTRATE PANA LA 160A

## Tablouri metalice incastrate pana la 160A

Gama **CVX 160i** ofera tablouri cu IP 40 incastrate cu In pana la 160A. Echiparea tabloului este foarte simpla, datorita paletei largi de accesorii.



### TABLOURI CU SINA DIN, PLASTROANE SI TOATE ACCESORIILE DE FIXARE INCLUSE

CARACTERISTICI GENERALE In: pana la 160A Capacitate: 24 module* pe fiecare sina Instalare: interior Culoare: gri RAL 7035		NR. DE MODULE EN50022 (PAS 17.5MM)		
		96	120	144
Numarul de randuri per nr. de module		4 randuri per 24 module 	5 randuri per 24 module 	6 randuri per 24 module 
Inaltimea functionala a tabloului: (mm)		600	800	1000
Inaltimea plastroanelor frontale: (mm)		150	200 (primul rand) 150 (restul randurilor)	200 (primul si al doilea rand) 150 (restul randurilor)
IP 30	 fara usa	GW 47 072	GW 47 073	GW 47 074
	 usa din sticla	GW 47 082	GW 47 083	GW 47 084
IP 40	 usa solida	GW 47 087	GW 47 088	GW 47 089

\* module EN50022 (17.5mm)

### Tablouri metalice aparente pana la 160A






Cadrul extractibil permite cablarea tablourilor pe banc, reducand timpii de manopera.

Sina DIN se poate instala fara suruburi, datorita profilelor de cuplare.

Plastronul frontal din material electroizolant poate fi fixat la 1/4 ture.

Sinele pot fi ajustate in profunzime fara a avea nevoie de suruburi sau alte unelte.



CARACTERISTICI GENERALE In: pana la 160A Capacitate: 24 module* pe fiecare sina Instalare: interior Culoare: gri RAL 7035		INALTIME FUNCTIONALA (mm)			
		600	800	1000	1200
IP30	Fara usa 	GW 47 001 E	GW 47 002 E	GW 47 003 E	GW 47 004 E
	Usa de sticla 	GW 47 011 E	GW 47 012 E	GW 47 013 E	GW 47 014 E
IP40	Usa solida 	GW 47 021 E	GW 47 022 E	GW 47 023 E	GW 47 024 E
	Usa de sticla 	GW 47 031 E	GW 47 032 E	GW 47 033 E	GW 47 034 E
IP55	Usa solida 	GW 47 041 E	GW 47 042 E	GW 47 043 E	GW 47 044 E
	Usa solida 	-	GW 47 062 E	GW 47 063 E	GW 47 064 E

NOTA: Codurile nu includ sina DIN si plastroanele frontale.

\* module EN 50022 (17.5mm)

# GAMA 47 CVX 630K - M

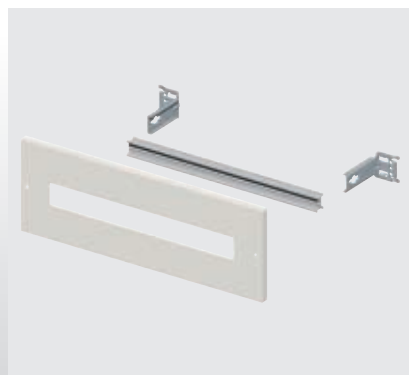
TABLOURI DE DISTRIBUTIE PANA LA 630A

## Tablouri de distributie metalice pana la 630A

Gamele CVX630K si CVX630M, ofera o multitudine de variante pentru protectia instalatiilor electrice interioare, intr-o varianta de design cu totul deosebit.

Gama **CVX 630K** ofera tablouri modulare atat aparente cat si de pardoseala cu grad de protectie IP 43 si curent nominal de pana la  $I_n=630A$ .

Gama **CVX 630M** ofera tablouri monobloc atat aparente cat si de pardoseala cu grad de protectie IP 55 si curent nominal de pana la  $I_n=630A$ .



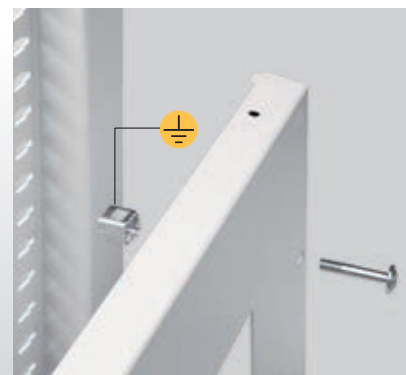
### Sinergie

CVX 630K si CVX630M utilizeaza aceleasi kituri si accesorii pentru dispozitive modulare sau capsulate.



### Cablare rapida si simplificata

Tablourile de distributie modulare CVX630K au fost proiectate pentru a face operatiunile de manopera mai usoare si mai rapide. Este posibila extragerea cadrului, in vederea cablarii pe bancul de lucru.









### Asamblare mai usoara si mentenanta redusa




Toate componentele metalice asigura contactul cu impamantarea. Toate panourile frontale sunt prevazute cu suruburi speciale si balamale pentru a face instalarea cat mai usoara.

### STRUCTURI APARENTE CVX 630K

STRUCTURI							
DIM. FUNCTIONALE (LXH)		600 x 1000 mm	600 x 1200 mm	850 x 1000 mm		850 x 1200 mm	
Capacitate modulara	Pas 150mm	144 mod. (24x6)	192 mod. (24x8)	144 mod. (24x6)	216 mod. (36x6)	192 mod. (24x8)	288 mod. (36x8)
	Pas 200mm	120 mod. (24x5)	144 mod. (24x6)	120 mod. (24x5)	180 mod. (36x5)	144 mod. (24x6)	216 mod. (36x6)
Structuri		GW 45 004	GW 45 005	GW 45 014		GW 45 015	
Laterale		GW 45 024	GW 45 025	GW 45 024		GW 45 025	
Usa curbata din sticla		GW 45 104	GW 45 105	GW 45 114		GW 45 115	
Usa solida		GW 45 124	GW 45 125	GW 45 134		GW 45 135	
Compartiment interior cablu		-	-	GW 45 034		GW 45 035	
Kit de instalare asociere		GW 45 504	GW 45 505	GW 45 504		GW 45 505	

### STRUCTURI DE PARDOSEALA CVX 630K

STRUCTURI										
DIM. FUNCTIONALE (LXH)		600 x1600 mm	600 x1800 mm	600 x2000 mm	850 x1600 mm		850 x1800 mm		850 x2000 mm	
Capacitate modulara	Pas 150mm	240 mod. (24x10)	288 mod. (24x12)	312 mod. (24x13)	240 mod. (24x10)	360 mod. (36x10)	288 mod. (24x12)	432 mod. (36x12)	312 mod. (24x13)	468 mod. (36x13)
	Pas 200mm	192 mod. (24x8)	216 mod. (24x9)	240 mod. (24x10)	192 mod. (24x8)	288 mod. (36x8)	216 mod. (24x9)	324 mod. (36x9)	240 mod. (24x10)	360 mod. (36x10)
Structuri		GW 45 007	GW 45 008	GW 45 009	GW 45 017		GW 45 018		GW 45 019	
Laterale		GW 45 027	GW 45 028	GW 45 029	GW 45 027		GW 45 028		GW 45 029	
Usa curbata din sticla		GW 45 107	GW 45 108	GW 45 109	GW 45 117		GW 45 118		GW 45 119	
Usi solide		GW 45 127	GW 45 128	GW 45 129	GW 45 137		GW 45 138		GW 45 139	
Compartiment intern cablu		-	-	-	GW 45 037		GW 45 038		GW 45 039	
Kit instalare asociere		GW 45 507	GW 45 508	GW 45 509	GW 45 507		GW 45 508		GW 45 509	





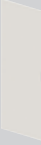



COMPARTIMENT EXTERIOR CABLU				
DIM. FUNCTIONALE (LXH)		400 x 1600 mm	400 x 1800 mm	400 x 2000 mm
Compartiment extern cablu		GW 45 047	GW 45 048	GW 45 049
Usi solide interne		GW 45 352	GW 45 353	GW 45 354
Usi solide externe		GW 45 147	GW 45 148	GW 45 149



### STRUCTURI CVX 630M APARENTE

		STRUCTURI					
DIM. FUNCTIONALE (LXH)		600 x 1000 mm	600 x 1200 mm	850 x 1000 mm		850 x 1200 mm	
Capacitate modulara	Pas 150mm	144 mod. (24x6)	192 mod. (24x8)	144 mod. (24x6)	216 mod. (36x6)	192 mod. (24x8)	288 mod. (36x8)
	Pas 200mm	120 mod. (24x5)	144 mod. (24x6)	120 mod. (24x5)	180 mod. (36x5)	144 mod. (24x6)	216 mod. (36x6)
Structuri		GW 45 054	GW 45 055	GW 45 064		GW 45 065	
Panouri laterale solide		GW 45 074	GW 45 075	GW 45 074		GW 45 075	
Panour ventilate laterale		GW 45 394	GW 45 395	GW 45 394		GW 45 395	
Usa din sticla curbata		GW 45 154	GW 45 155	GW 45 164		GW 45 165	
Usa solida		GW 45 174	GW 45 175	GW 45 184		GW 45 185	
Compartiment intern de cablu		-	-	GW 45 084		GW 45 085	
Kit de instalare asociere	Coliere 	GW 45 533	GW 45 533	GW 45 533		GW 45 533	
	Garnitura IP 55 	GW 47 473	GW 47 473	GW 47 473		GW 47 473	



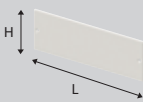







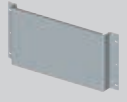



### STRUCTURI CVX 630 M DE PARDOSEALA

STRUCTURI										
DIM. FUNCTIONALE (LXH)		600 x 1600 mm	600 x 1800 mm	600 x 2000 mm	850 x 1600 mm		850 x 1800 mm		850 x 2000 mm	
Capacitate modulara	Pas 150mm	240 mod. (24x10)	288 mod. (24x12)	312 mod. (24x13)	240 mod. (24x10)	360 mod. (36x10)	288 mod. (24x12)	432 mod. (36x12)	312 mod. (24x13)	468 mod. (36x13)
	Pas 200mm	192 mod. (24x8)	216 mod. (24x9)	240 mod. (24x10)	192 mod. (24x8)	288 mod. (36x8)	216 mod. (24x9)	324 mod. (36x9)	240 mod. (24x10)	360 mod. (36x10)
Structuri		GW 45 057	GW 45 058	GW 45 059	GW 45 067		GW 45 068		GW 45 069	
Panouri laterale solide		GW 45 077	GW 45 078	GW 45 079	GW 45 077		GW 45 078		GW 45 079	
Panouri laterale ventilate		GW 45 397	GW 45 398	GW 45 399	GW 45 397		GW 45 398		GW 45 399	
Usa din sticla curbata		GW 45 157	GW 45 158	GW 45 159	GW 45 167		GW 45 168		GW 45 169	
Usi solide		GW 45 177	GW 45 178	GW 45 179	GW 45 187		GW 45 188		GW 45 189	
Compartiment intern de cablu		-	-	-	GW 45 087		GW 45 088		GW 45 089	
Kit de instalare asociere	Coliere 	GW 47 472	GW 47 472	GW 47 472	GW 47 472		GW 47 472		GW 47 472	
	Garnitura IP 55 	GW 47 473	GW 47 473	GW 47 473	GW 47 473		GW 47 473		GW 47 473	

### COMPARTIMENT EXTERN DE CABLU







DIM. FUNCTIONALE (LXH)		400 x 1600 mm	400 x 1800 mm	400 x 2000 mm
Compartiment extern de cablu		GW 45 097	GW 45 098	GW 45 099
Usa solida interna		GW 45 352	GW 45 353	GW 45 354
Usa solida externa		GW 45 197	GW 45 198	GW 45 199

### ACCESORII PENTRU TABLOURI CVX 630 K / CVX 630M

			Inaltime panou (mm)	L= 400mm (10 mod.)	L= 600mm (24 mod.)	L= 850mm (36 mod.)
<b>Kit de instalare pe sina DIN</b> 	DIN EN 50022 dublu - aluminiu		150	GW 45 291	GW 45 201	GW 45 206
			200	GW 45 292	GW 45 202	GW 45 207
			300	GW 45 293	GW 45 203	GW 45 208
			300 <sup>(1)</sup>	-	GW 45 204	GW 45 209
<b>Panouri frontale pline</b> 			50	GW 45 341	GW 45 301	GW 45 321
			100	GW 45 342	GW 45 302	GW 45 322
			150	GW 45 343	GW 45 303	GW 45 323
			200	GW 45 344	GW 45 304	GW 45 324
			300	GW 45 345	GW 45 305	GW 45 325
			400	GW 45 346	GW 45 306	GW 45 326
			600	GW 45 347	GW 45 307	GW 45 327
		800	GW 45 348	-	-	
<b>Panou frontal pentru dispozitive</b> 			200	-	GW 45 374	GW 45 379
<b>Panouri frontale ventilate</b> 			200	-	GW 45 362	GW 45 367
<b>Sina DIN</b> 	DIN EN 50022 dublu - aluminiu		-	-	GW 45 401	GW 45 402
<b>Profile pentru fixare direct pe cadru</b> 	DIN EN 50022		-	-	GW 45 411	GW 45 416
	DIN EN 50035		-	-	GW 45 412	GW 45 417
<b>Contra panou</b> 			200	-	GW 45 421	GW 45 431
			300	GW 45 406	-	-
			400	-	GW 45 422	GW 45 432
			600	-	GW 45 423	GW 45 433
<b>Bara de nul</b> 			-	GW 45 437	GW 45 538	-
<b>Busbar de nul</b> 			-	-	GW 45 534	GW 45 535
<b>Separatoare orizontale</b> 	pentru CVX 630 K		-	-	GW 45 451	GW 45 452
	pentru CVX 630 M		-	-	GW 45 453	GW 45 454

<sup>(1)</sup> Versiune speciala pentru MTX/M 160c, MTX/E 160 sau MTX/M 250 combinata cu bloc diferential L

### ACCESORII COMPLEMENTARE (\*)

Adaptor de profunzime			GW 49 209
Balamale de panou			GW 45 532
Perechi de suporturi pentru	sisteme orizontale/verticale		GW 45 521
	bloc terminal orizontal 45		GW 45 526
	compartiment intern bloc terminal		GW 45 527
	compartiment extern bloc terminal		GW 45 528
Sina DIN = 2 m	EN 50022 (DIN35)		GW 47 691
	EN 50035 (G32)		GW 47 692
	EN 50024 (C30)		GW 47 693
Garnitura IP 43	Pentru CVX 630K		GW 45 531
Maner rotativ cu blocare			GW 47 494
4 bratari montaj aparent	Pentru tablouri aparente CVX 630 K		GW 45 536
2 bratari montaj aparent	Pentru tablouri de pardoseala CVX 630M		GW 47 491

(\*) Va rugam sa consultati catalogul comercial pentru gama completa de accesorii.

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