The new era of protection

GEWISS
DOMOTICS ENERGY LIGHTING

90 MDC, BD AND SD RANGE

THE EVOLUTION OF RESIDUAL CURRENT PROTECTION

NEW products

Reduction of untimely tripping

The new impulse-resistant configurations make it possible to avoid untimely tripping, which are increasingly caused by the wide-scale use of electronic equipment.
Versions coupled with ReStart provide service continuity that is beyond comparison in the market.

Selectivity and compactness

The introduction of the new MDC selective A[S] type increases the versatility of GEWISS's offer of residual current circuit breakers for all installation requirements.

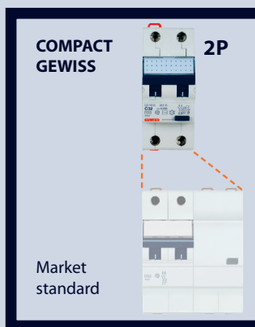
Total residual current protection

The new SD B type complete the offer of the RCCBs. The tripping is ensured for direct leakage currents which cannot be detected by AC and A type.They are used in many applications such as in industrial and medical areas and in the PV applications.

MDC/BD A[IR] and A[S] type residual current circuit breaker protection

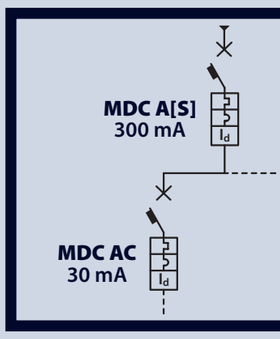
Wide Range

Since introducing these new configurations, the Gewiss RCBO offer is currently the largest available to the market.



Compact

Also using the new A[IR] and A[S] type MDC versions obtains complete protection, reducing overall dimensions by 50%.



Selectivity

The new MDC selective A[S] type makes it possible to add a second level of upstream residual current protection without increasing the dimensions of the main board.

Impulse-Resistant

The new MDC and BD A[IR] type with level of immunity (8/20 µs) increased to 3000A, represent the ideal solution in networks with a significant presence of harmonics and disturbances.

100% continuity

Thanks to the MDC and BD A[IR] type coupled with ReStart, GEWISS is the only manufacturer able to provide a single device which prevents and pays attention to untimely tripping with maximum service continuity.

Fault Diagnosis

The RCBO can identify the type of fault that has caused the device to trip. A yellow flag indicates earth fault.

SD B type Residual current protection against direct fault currents

Photovoltaic

The SD type B are used for protection against indirect contacts on the AC side when the inverters do not have a transformer or are not suitable, by construction, to prevent direct leakage currents type.

Medical Systems

RCCBs B type are recommended in this type of installation where class I equipment (TAC, UPS etc.) is installed. In fact this equipment can create direct leakage currents in the case the main insulation fails.

Lifts

The RCCBs B type are widely used also in power supply systems for lifts where there is an inverter.

90 RCD Range - MDC, BD, SD

GEWISS
DOMOTICS ENERGY LIGHTING

MDC A[IR] and A[S] type Compact residual current circuit breakers with overcurrent protection

Icn [A]	Curve	Type	In [A]	"MDC" RESIDUAL CURRENT CIRCUIT BREAKERS WITH OVERCURRENT PROTECTION (EN 61009-1) IΔn = 30mA 1P+N 2 mod.	2P 2 mod.	3P 3 mod.	4P 4 mod.	IΔn = 300mA 1P+N 2 mod.	2P 2 mod.	3P 3 mod.	4P 4 mod.
MDC 45											
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
			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
		A	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
MDC 60											
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
			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
		A	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
			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
		A[IR]	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	-	-	-	-
			20	-	GW 95 808	-	GW 95 818	-	-	-	-
			25	-	GW 95 809	-	GW 95 819	-	-	-	-
			32	-	GW 95 810	-	GW 95 820	-	-	-	-
		A[S]	16	-	-	-	-	-	GW 95 847	-	GW 95 857
			20	-	-	-	-	-	GW 95 848	-	GW 95 858
			25	-	-	-	-	-	GW 95 849	-	GW 95 859
			32	-	-	-	-	-	GW 95 850	-	GW 95 860
	B	A	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	-	-	-	-
			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

NEW products

Icn [A]	Curve	Type	In [A]	"MDC" RESIDUAL CURRENT CIRCUIT BREAKERS WITH OVERCURRENT PROTECTION (EN 61009-1) IΔn = 30mA 1P+N 2 mod.	2P 2 mod.	IΔn = 300mA 1P+N 2 mod.	2P 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 95 215	GW 95 235
			10	GW 95 206	GW 95 226	GW 95 216	GW 95 236
			13	GW 95 211	GW 95 231	-	-
			16	GW 95 207	GW 95 227	GW 95 217	GW 95 237
			20	GW 95 208	GW 95 228	GW 95 218	GW 95 238
			25	GW 95 209	GW 95 229	GW 95 219	GW 95 239
			32	GW 95 210	GW 95 230	GW 95 220	GW 95 240
		A[IR]	6	-	GW 95 825	-	-
			10	-	GW 95 826	-	-
			13	-	GW 95 831	-	-
			16	-	GW 95 827	-	-
			20	-	GW 95 828	-	-
			25	-	GW 95 829	-	-
			32	-	GW 95 830	-	-
	B	A	6	-	GW 95 325	-	GW 95 335
			10	-	GW 95 326	-	GW 95 336
			13	-	GW 95 331	-	-
			16	-	GW 95 327	-	GW 95 337
			20	-	GW 95 328	-	GW 95 338
			25	-	GW 95 329	-	GW 95 339
			32	-	GW 95 330	-	GW 95 340
		A[IR]	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	-	-

NEW products

BD A[IR] type Add-on residual current devices

Type	IΔn [mA]	ADD-ON RESIDUAL CURRENT DEVICES (EN 61009-1 APP. G) BD 2P 2 mod. In≤25 A	In≤63 A	BD 3P 3.5 mod. In≤25 A	In≤63 A	BD 4P 3.5 mod. In≤25 A	In≤63 A	BDHP 2P 4 mod. In≤125 A	BDHP 3P 6 mod. In≤125 A	BDHP 4P 6 mod. 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

NEW products

SD B type Residual current circuit breakers

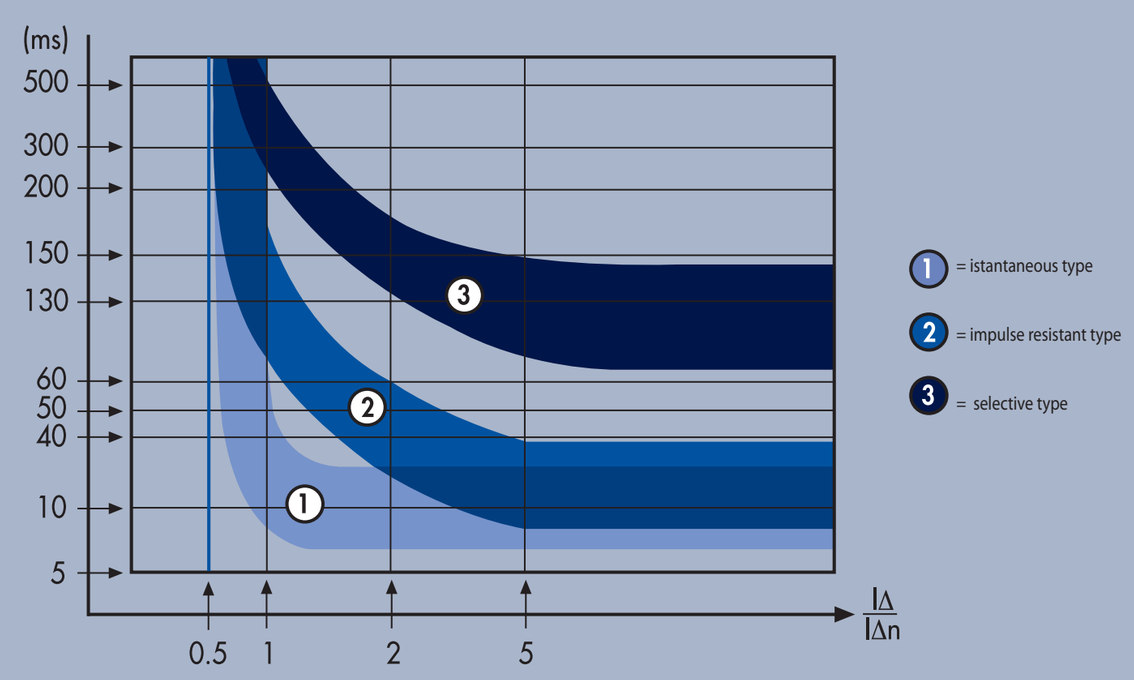
In [A]	Type	IΔn [mA]	RESIDUAL CURRENT CIRCUIT BREAKERS (EN 61008-1) SD 2P 4 mod.	SD 4P 4 mod.
25	B[IR]	30	GW 95 701	GW 95 716
		300	-	GW 95 718
40	B[IR]	30	GW 95 706	GW 95 721
		300	-	GW 95 723
63	B[IR]	30	-	GW 95 726
		300	-	GW 95 728
		500	-	GW 95 729
	B[S]	300	-	GW 95 737
80	B[IR]	30	-	GW 95 731
		300	-	GW 95 733
	B[S]	300	-	GW 95 743

NEW products

TECHNICAL DATA			B[IR]				B[S]	
Type								
Rated operational current (In)		(A)	25	40	63	80	63	80
Rated operational voltage (Ue)	2P	(V AC)	230	230	-	-	-	-
	4P		400	400	400	400	400	400
Rated insulation voltage (Ui)		(V)	500	500	500	500	500	500
Rated frequency		(Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Number of poles			2 4	2 4	4	4	4	4
Rated residual operating current (with no. of modules in brackets)								
	impulse-resistant (IR)	30	• (4) • (4)	• (4) • (4)	• (4)	• (4)		
		300	• (4)	• (4)	• (4)	• (4)	• (4)	• (4)
		500			• (4)			
	selective (S)	300					• (4)	• (4)
Residual making and breaking capacity	IΔm	(A)	800	800	800	800	800	800
Range of test-button operating voltage	2P	(V)	150 - 440	150 - 440	-	-	-	-
	4P		150 - 440	150 - 440	150 - 440	150 - 440	150 - 440	150 - 440

ONE RCD FOR EVERY NEED

RCD type	AC	A	B	Level of immunity (8/20µs)
Residual fault current type	• sinusoidal alternating	• sinusoidal alternating • pulsanting	• sinusoidal alternating • pulsanting • smooth DC	
1. ISTANTANEUS First level of residual-current protection against direct and indirect contacts	✓	✓		250A
2. IMPULSE RESISTANT Prevention of untimely tripping caused by: • overvoltages due to indirect lightning strikes (8/20 µs impulse current waveform up to 3000A) • overvoltages due to maneuvres on electrical network • overvoltages due to earth fault on three-phase system • permanent harmonics due electronic devices (immunity to currents with frequency major than 50Hz) • starting current (immunity to the ring wave waveform)		✓	✓	3000A
3. SELECTIVE Second level of residual-current protection for total or chronometric selectivity with downstream RCDs		✓	✓	3000A 5000A



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Company with a sole shareholder - R.I. Bergamo / VAT no. / Tax code (IT) 00385040167 - Economic and Administrative Index [REA]107496 - Share capital Euro 60,000,000.00 fully paid up