

70 RT HP



Rotary isolator switches

GEWISS

Energy and safety. For all your projects.

70 RT HP is a comprehensive range of 16A to 160A rotary isolator switches available in enclosures made from both insulating materials and aluminium. Provided in control or emergency versions, they are compatible with the main applications for residential, commercial and industrial contexts.

DC versions for photovoltaic applications are also available, ranging from 16A to 40A, in an insulating enclosure. The series is completed with versions for board from 16A to 1000A and for DIN rail fixing from 16A to 63A, which can be equipped with auxiliary contacts.

The devices have been designed to reduce wiring time, facilitate installation and ensure the maximum safety and robustness even in the most demanding conditions.



Residential



Office



Industry



Sport



Healthcare



Retail



Hospitality



Transportation



Performance

The switches of the 70 RT HP Series ensure high performance, thanks to protection ratings of IP66/IP67/IP69, impact resistance up to IK11 and optimized wiring and installation times.

Reliability

The rotary switch disconnecter guarantees complete reliability when insulating an electrical line or network. Designed to deliver high electrical performances, the switch can operate with highly inductive motors (AC23A utilization category) even in the most demanding industrial environments.

Versatility

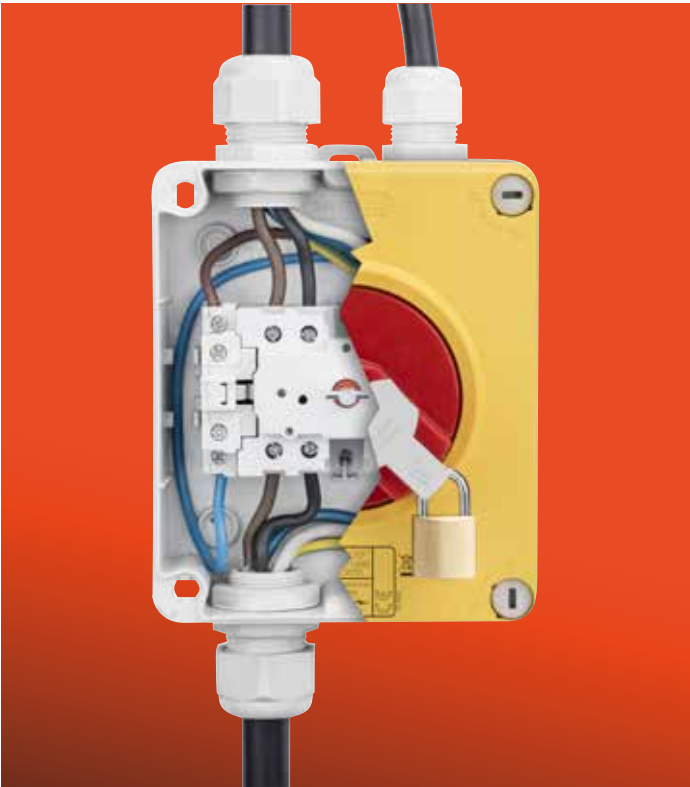
70 RT HP is available in surface-mounted versions and for distribution boards, with either front-panel installation or DIN rail mounting (EN 50022).

This makes the product range extremely flexible, as it can be installed on all GEWISS distribution boards.

Safety

The patented and innovative padlocking system accommodates up to three padlocks, allowing the rotary switch to be locked in both the ON and OFF positions (OFF only for the Emergency version). The 70 RT HP disconnection solution helps to ensure a safe working environment for personnel and protects valuable electrical equipment from damage.

Insulating Enclosure



Designed to meet the **highest standards of safety, durability and performance**, the 70 RT HP in an insulating enclosure is the essential component in maintaining operational continuity and protecting equipment and workers.

- Insulating enclosure provides **double insulation**, reducing the risk of electrical leakage.
- Full rating up to 125A with **AC-21A, AC-22A and AC-23A** ensures optimal operation of inductive motors in demanding applications, supporting HVAC systems, elevators, and ventilation units.
- Designed to withstand severe impacts, featuring an **IK08** impact resistance rating for enhanced durability and protection.
- Engineered for resilience, rotary isolator switches are available with high degrees of protection (**IP66/IP67/IP69**) against dust and water ingress, guaranteeing reliability and longevity even in the most challenging environments.
- Functions reliably in temperatures **up to 60°C** without derating.
- Ideal for **indoor and outdoor applications** with superior environmental resistance.
- **Up to 8P** to handle the connection with multiple devices.
- **Additional auxiliary contacts** extend the switch's functionality, enabling connections to indicator lights, smoke meters, or other monitoring devices, enhancing system integration and visibility.



Aluminium Enclosure



Built to perform, designed for safety

The 70RT HP housed in an aluminium enclosure plays a vital role in energy systems by providing a clear isolation point for **safe maintenance** and preventing accidental electrocution

- **Versatile applications:** ideal for HVAC, industrial cooling, ventilation, elevators, pumps, and motors, but also in technical rooms and professional kitchens.
- **AC-23A rating** ensures efficient inductive motor operation in demanding conditions.
- **Up to IK11 impact resistance** withstands severe impacts, including those from heavy machinery.
- **Superior environmental protection: IP66/IP69 ratings** safeguard against dust and water in harsh conditions.



- **Reliable performance up to 60°C** without derating, plus **UV resistance** for longevity.
- **Solvent chemical resistance** preserves integrity during cleaning and processing.
- **Multipole design** adapts to various electrical configurations.
- The **refined aluminium enclosure** integrates seamlessly into residential and commercial spaces.
- **Auxiliary contacts** enable real-time monitoring for enhanced safety and control.
- **ATEX-certified models** ensure secure operation in explosion-prone environments.

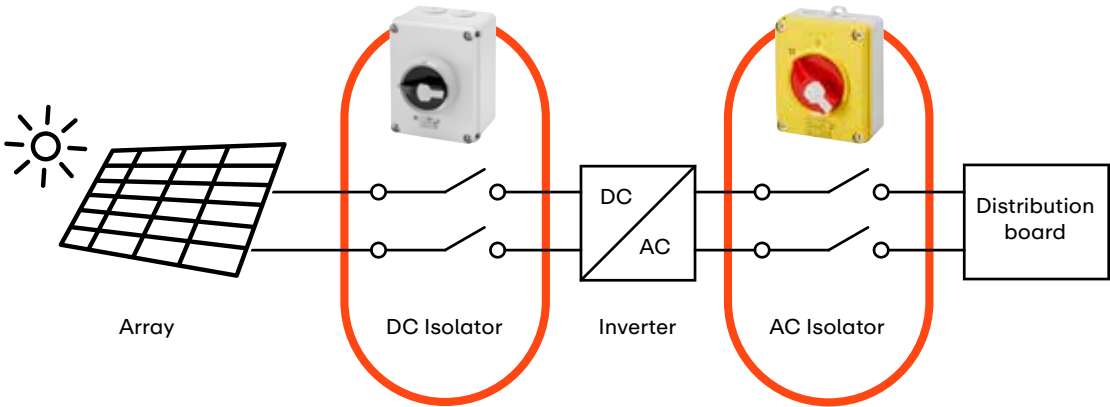
DC versions for photovoltaic applications



Ensure reliable power management for photovoltaic systems supporting routine maintenance and emergency intervention in total safety.

- A **dedicated offering**, available in both DC and AC versions, meets evolving renewable energy needs. The DC switches are available in versions ranging from 16 A to 40 A, housed in an insulating enclosure.
- Fully compliant with IEC 60947-1:2020, IEC 60947-3:2020 (Annex D) standards for use in photovoltaic (**DC-PV1**) applications.
- **IK08** impact resistance and **IP66/IP67/IP69** dust and water ingress ratings ensure durability and longevity, even in extreme climate conditions
- Reliable performance **up to 60°C** without derating, plus **UV resistance** for endurance.

EXAMPLE OF PV APPLICATION



Versions for boards

The **70 RT HP for boards** (16 A ÷ 1000 A) and **DIN rail fixing** (16 A ÷ 63 A) are designed for safe and efficient electrical management in panel-mounted versions, providing control for demanding and large-scale applications and guaranteeing personnel safety.

- Ideal for industrial automation, energy distribution, and control of heavy machinery, our solution ensures **safety, reliability and compliance with demanding operational standards** by safely disconnecting power sources during servicing.
- **Safe Load Switching:** ensures reliable opening and closing under load. Visible opening with manual operation. Equipped with knobs for direct operation or door interlocking via the installation of an extension shaft.
- **Secure Isolation:** provides effective circuit disconnection, particularly for machine control circuits.
- **Multipole design:** offers flexibility to adapt to various electrical configurations.



Conformity to standards

The 70 RT HP series complies with international standards:

CE

IEC 60947-1:2020

IEC 60947-3:2020

IEC 60947-3:2020 (Annex D)

Switches, disconnectors, switch-disconnectors and fuse-combination units for use in photovoltaic (PV) DC applications

IEC 60947-1:2021

IEC 60947-3:2021

IEC 60079-0:2018

EN 60079-31:2014

IEC 63000:2018: 70 ATEX

AC21A - AC22A
AC23A / 415V ratings

ISO 4898-2

Resistance to UV rays

70 RT HP series



70 RT HP IN INSULATING ENCLOSURE

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70 RT HP IN ALUMINIUM ENCLOSURE

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70 RT HP IN INSULATING ENCLOSURE FOR DIRECT CURRENT

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70 RT HP ATEX VERSION IN ALUMINIUM ENCLOSURE

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70 RT HP VERSION FOR BOARDS/DIN RAIL

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COMPLEMENTARY ITEMS

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Rotary isolators

In	POLES	VERSIONS IN INSULATING ENCLOSURE				VERSIONS IN ALUMINIUM ENCLOSURE		
								
		Dim: 125 x 150 x 75,5 mm	Dim: 153,6 x 200,6 x 117 mm	Dim: 125 x 150 x 75,5 mm	Dim: 153,6 x 200,6 x 117 mm	Dim: 141 x 184 x 96 mm	Dim: 165 x 219 x 108 mm	Dim: 165 x 219 x 140 mm
16A	2P	GW 70 401 P		GW 70 431 P		GW 70 301 M		
	3P	GW 70 402 P		GW 70 432 P		GW 70 302 M		
	3P+N	GW 70 402 NP		GW 70 432 NP		GW 70 302 NM		
	4P	GW 70 403 P		GW 70 433 P		GW 70 303 M		
	6P		GW 70 601 P		GW 70 641P			GW 70 801 M
	8P		GW 70 621 P		GW 70 661P			GW 70 821 M
25A	2P	GW 70 416 P		GW 70 486 P		GW 70 316 M		
	3P	GW 70 417 P		GW 70 487 P		GW 70 317 M		
	3P+N	GW 70 417 NP		GW 70 487 NP		GW 70 317 NM		
	4P	GW 70 418 P		GW 70 488 P		GW 70 318 M		
	6P		GW 70 602 P		GW 70 642 P			GW 70 802 M
	8P		GW 70 622 P		GW 70 662 P			GW 70 822 M
32A	2P	GW 70 404 P		GW 70 434 P		GW 70 304 M		
	3P	GW 70 405 P		GW 70 435 P		GW 70 305 M		
	3P+N	GW 70 405 NP		GW 70 435 NP		GW 70 305 NM		
	4P	GW 70 406 P		GW 70 436 P		GW 70 306 M		
	6P		GW 70 603 P		GW 70 643 P			GW 70 803 M
	8P		GW 70 623 P		GW 70 663 P			GW 70 823 M
40A	2P	GW 70 413 P		GW 70 441 P		GW 70 313 M	GW 70 901 M	
	3P	GW 70 414 P		GW 70 442 P		GW 70 314 M	GW 70 902 M	
	3P+N	GW 70 414 NP		GW 70 442 NP		GW 70 314 NM	GW 70 902 NM	
	4P	GW 70 415 P		GW 70 443 P		GW 70 315 M	GW 70 903 M	
	6P		GW 70 604 P		GW 70 644 P			GW 70 804 M
	8P		GW 70 624 P		GW 70 664 P			GW 70 824 M
								
		Dim: 156 x 200 x 95 mm	236,5 x 315,5 x 178 mm	Dim: 156 x 200 x 95 mm	Dim: 236,5 x 315,5 x 178 mm	Dim: 165 x 219 x 108 mm	Dim: 257 x 334 x 164 mm	
63A	3P	GW 70 407 P		GW 70 437 P		GW 70 307 M		
	3P+N	GW 70 407 NP		GW 70 437 NP		GW 70 307 NM		
	4P	GW 70 408 P		GW 70 438 P		GW 70 308 M		
	6P		GW 70 605 P		GW 70 645 P			GW 70 805 M
	8P		GW 70 625 P		GW 70 665 P			GW 70 825 M
80A	3P	GW 70 419 P		GW 70 489 P		GW 70 319 M		
	3P+N	GW 70 419 NP		GW 70 489 NP		GW 70 319 NM		
	4P	GW 70 420 P		GW 70 490 P		GW 70 320 M		
								
		Dim: 236,5 x 316 x 178 mm	Dim: 236,5 x 316 x 178 mm	Dim: 236,5 x 316 x 178 mm	Dim: 236,5 x 316 x 178 mm	Dim: 257 x 334 x 170 mm	Dim: 257 x 334 x 164 mm	
100A	3P	GW 70 421 P		GW 70 491 P		GW 70 321 M		
	3P+N	GW 70 421 NP		GW 70 491 NP		GW 70 321 NM		
	4P	GW 70 422 P		GW 70 492 P		GW 70 322 M		
	6P		GW 70 607 P		GW 70 647 P			GW 70 807 M
	8P		GW 70 627 P		GW 70 667 P			GW 70 827 M
125A	3P	GW 70 423 P		GW 70 493 P		GW 70 323 M		
	3P+N	GW 70 423 NP		GW 70 493 NP		GW 70 323 NM		
	4P	GW 70 424 P		GW 70 494 P		GW 70 324 M		
160A	3P	GW 70 425 P		GW 70 495 P		GW 70 325 M		
	3P+N	GW 70 425 NP		GW 70 495 NP		GW 70 325 NM		
	4P	GW 70 426 P		GW 70 496 P		GW 70 326 M		

NOTE: the dimensions shown above refer to the external dimensions of the boxes without considering the knob.

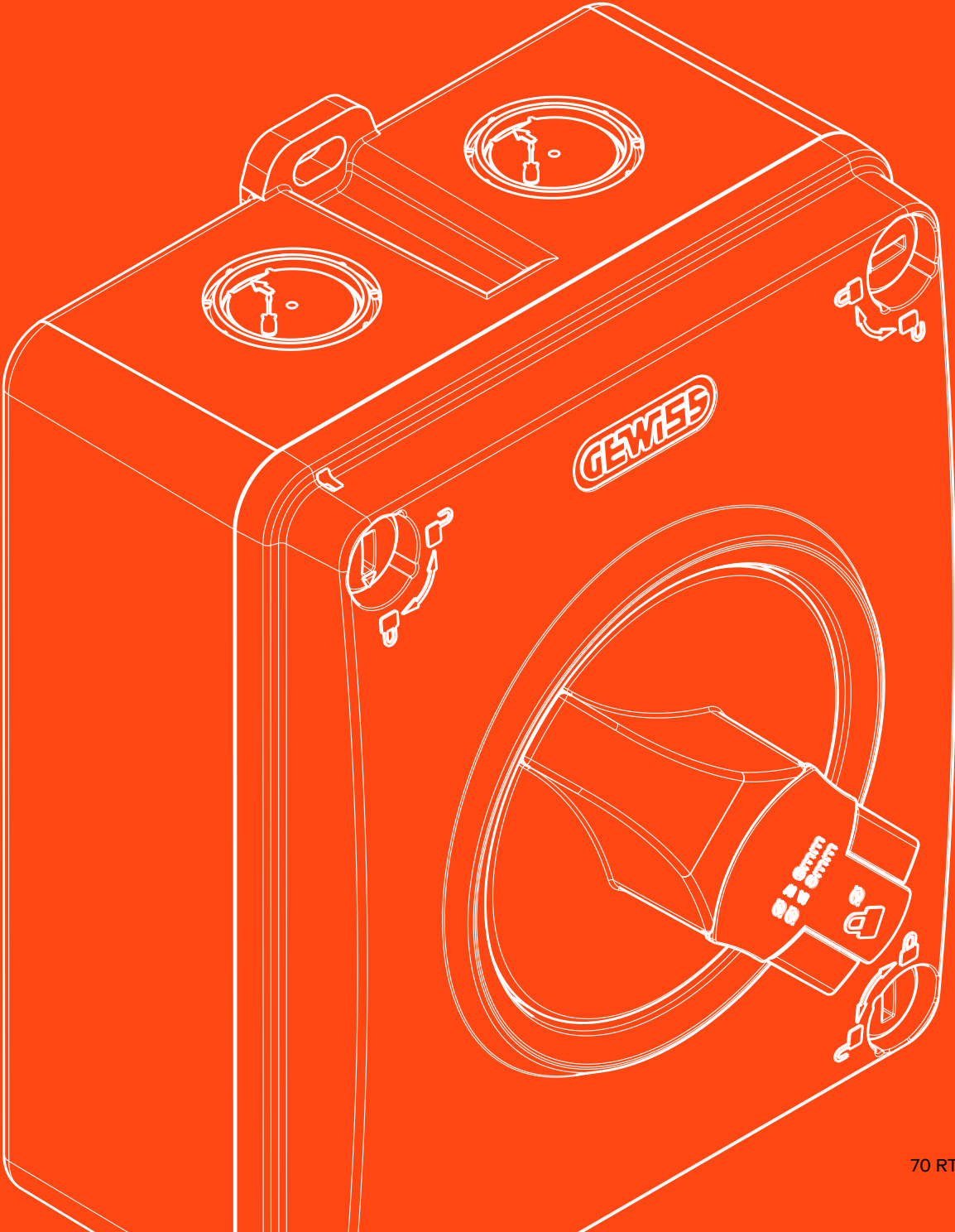
VERSIONS IN ALUMINIUM ENCLOSURE			AUXILIARY CONTACTS			DC VERSIONS FOR PHOTOVOLTAIC APPLICATIONS IN INSULATING ENCLOSURE	ATEX VERSIONS IN ALUMINIUM ENCLOSURE			
EMERGENCY		EMERGENCY					CONTROL	EMERGENCY		
										
Dim: 141 x 184 x 96 mm	Dim: 165 x 219 x 108 mm	Dim: 165 x 219 x 140 mm	1NO + 1NC	2NO	2NC	Dim: 153,6 x 200,6 x 117 mm	Dim: 140 x 165 x 63 mm	Dim: 140 x 165 x 63 mm		
GW 70 331 M			GW 70 026	GW 70 027	GW 70 028	GW 70 231	GW 70 451	GW 70 471		
GW 70 332 M						GW 70 452	GW 70 472			
GW 70 332 NM										
GW 70 333 M						GW 70 453	GW 70 473			
		GW 70 841 M	GW 70 029							
		GW 70 861 M								
GW 70 386 M			GW 70 026	GW 70 027	GW 70 028	GW 70 235				
GW 70 387 M										
GW 70 387 NM										
GW 70 388 M										
		GW 70 842 M	GW 70 029							
		GW 70 862 M								
GW 70 334 M			GW 70 026	GW 70 027	GW 70 028		GW 70 454	GW 70 474		
GW 70 335 M						GW 70 238	GW 70 455	GW 70 475		
GW 70 335 NM										
GW 70 336 M						GW 70 239	GW 70 456	GW 70 476		
		GW 70 843 M	GW 70 029							
		GW 70 863 M								
GW 70 341 M	GW 70 931 M		GW 70 026	GW 70 027	GW 70 028					
GW 70 342 M	GW 70 932 M									
GW 70 342 NM	GW 70 932 NM									
GW 70 343 M	GW 70 933 M					GW 70 242				
		GW 70 844 M	GW 70 029							
		GW 70 864 M								
										
Dim: 165 x 219 x 108 mm		Dim: 257 x 334 x 164 mm	1NO + 1NC	2NO	2NC		Dim: 215 x 252 x 91 mm	Dim: 215 x 252 x 91 mm		
GW 70 337 M			GW 70 026	GW 70 027	GW 70 028		GW 70 457	GW 70 477		
GW 70 337 NM										
GW 70 338 M									GW 70 458	GW 70 478
		GW 70 845 M								
		GW 70 865 M	GW 70 029							
GW 70 389 M										
GW 70 389 NM			GW 70 026	GW 70 027	GW 70 028					
GW 70 390 M										
										
Dim: 257 x 334 x 170 mm		Dim: 257 x 334 x 164 mm	1NO + 1NC	2NO	2NC		Dim: 307 x 257 x 120 mm	Dim: 307 x 257 x 120 mm		
GW 70 391 M			GW 70 029				GW 70 459	GW 70 479		
GW 70 391 NM										
GW 70 392 M							GW 70 460	GW 70 480		
		GW 70 847 M								
		GW 70 867 M								
GW 70 393 M										
GW 70 393 NM										
GW 70 394 M										
GW 70 395 M										
GW 70 395 NM										
GW 70 396 M										

Rotary isolators

In	POLES	VERSIONS FOR BOARD				
		PANEL/DOOR MOUNTING (*) 	DIN RAIL MOUNTING 	AUXILIARY CONTACTS 		
				1NO + 1NC	2NO	2NC
16A	2P	GW 70 001	GW 70 201	GW 70 026	GW 70 027	GW 70 028
	3P	GW 70 002	GW 70 202			
	4P	GW 70 003	GW 70 203			
25A	3P	GW 70 052				
	4P	GW 70 053				
32A	2P	GW 70 004	GW 70 204			
	3P	GW 70 005	GW 70 205			
	4P	GW 70 006	GW 70 206			
40A	3P	GW 70 055				
	4P	GW 70 056				
63A	3P	GW 70 007	GW 70 207			
	4P	GW 70 008	GW 70 208			
80A	3P	GW 70 058				
	4P	GW 70 059				
100A	3P	GW 70 061		GW 70 029		
	4P	GW 70 062				
125A	3P	GW 70 064				
	4P	GW 70 065				
160A	3P	GW 70 067				
	4P	GW 70 068				

(*) Versions for panel/door mounting can be accessorized with galvanized steel extending brackets GW 70 009.

In	POLES	VERSIONS FOR BOARD					
		PANEL/DOOR MOUNTING 	AUXILIARY CONTACTS 		PHASE BARRIERS 	TERMINAL COVERS 	SHAFTS 
			1NC	1EB			
200A	3P	GW 70 070	GW 70 035	GW 70 036	GW 70 171	GW 70 181	GW 70 040
	4P	GW 70 071			GW 70 172	GW 70 182	
250A	3P	GW 70 073			GW 70 171	GW 70 181	
	4P	GW 70 074			GW 70 172	GW 70 182	
315A	3P	GW 70 076			GW 70 173	GW 70 183	
	4P	GW 70 077			GW 70 174	GW 70 184	
400A	3P	GW 70 079			GW 70 173	GW 70 183	
	4P	GW 70 080			GW 70 174	GW 70 184	
630A	3P	GW 70 085			GW 70 175	GW 70 185	GW 70 041
	4P	GW 70 086			GW 70 176	GW 70 186	
800A	3P	GW 70 088			GW 70 175	GW 70 185	
	4P	GW 70 089			GW 70 176	GW 70 186	
1000A	3P	GW 70 091			GW 70 175	GW 70 185	
	4P	GW 70 092			GW 70 176	GW 70 186	





70 RT HP in insulating enclosure



TOTAL PROTECTION

- ① IP66 / IP67 / IP69 - Total protection from dust and water.
- ② External wall-mounting eyelets (x2) to maintain the protection rating.
- ③ IK08 - Withstands high levels of mechanical stress.
- ④ SAFETY
 - ON/OFF status indication for safe operation: visually clear.
 - Patented locking system: hidden inside the handle, allows locking in ON or OFF position (OFF only for Emergency version).
 - Up to 3 padlocks can be installed simultaneously.
- ⑤ Front label for easy reading of technical data and standards.

QUICK ASSEMBLY

- ⑥ Double metric input to reduce wiring times.
- ⑦ Quarter-turn closure: reduced installation times (versions 16-80A up to 4P).

RELIABILITY

- ⑧ Ergonomic handle resistant to high mechanical stress. The shape ensures a solid grip and prevents dirt accumulation.
- ⑨ High resistance to UV rays.
- ⑩ Good resistance to chemicals.

ACCESSORIABILITY

- ⑪ Housable auxiliary contacts

Emergency version



70 RT HP in insulating enclosure

70 RT HP - SURFACE MOUNTING ROTARY ISOLATOR IN INSULATING ENCLOSURE - IP66/IP67/69

Control versions



GW 70 406 P

Surface-mounting isolator - control version with lockable black knob - IP66/IP67/IP69					
Code	No. of poles	Outer dim. LxHxD (mm)	Cable entries	Lid screws (no. and type)	Pack Carton
Rated current (A): 16					
GW 70 401 P	2P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 402 P	3P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 402 NP	3P+N	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 403 P	4P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 601 P	6P	153,6x200,6x117	4xM20	4 insulation	1/4
GW 70 621 P	8P	153,6x200,6x117	4xM20	4 insulation	1/4
Rated current (A): 25					
GW 70 416 P	2P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 417 P	3P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 417 NP	3P+N	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 418 P	4P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 602 P	6P	153,6x200,6x117	4xM25	4 insulation	1/4
GW 70 622 P	8P	153,6x200,6x117	4xM25	4 insulation	1/4
Rated current (A): 32					
GW 70 404 P	2P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 405 P	3P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 405 NP	3P+N	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 406 P	4P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 603 P	6P	153,6x200,6x117	4xM25	4 insulation	1/4
GW 70 623 P	8P	153,6x200,6x117	4xM25	4 insulation	1/4
Rated current (A): 40					
GW 70 413 P	2P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 414 P	3P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 414 NP	3P+N	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 415 P	4P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 604 P	6P	153,6x200,6x117	4xM32	4 insulation	1/4
GW 70 624 P	8P	153,6x200,6x117	4xM32	4 insulation	1/4
Rated current (A): 63					
GW 70 407 P	3P	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 407 NP	3P+N	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 408 P	4P	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 605 P	6P	236,5x315,5x178	-	4 insulation	1
GW 70 625 P	8P	315,5x236,5x178	-	4 insulation	1
Rated current (A): 80					
GW 70 419 P	3P	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 419 NP	3P+N	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 420 P	4P	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
Rated current (A): 100					
GW 70 421 P	3P	236,5x316x178	-	4 insulation	1
GW 70 421 NP	3P+N	236,5x316x178	-	4 insulation	1
GW 70 422 P	4P	236,5x316x178	-	4 insulation	1
GW 70 607 P	6P	236,5x315,5x178	-	4 insulation	1
GW 70 627 P	8P	315,5x236,5x178	-	4 insulation	1
Rated current (A): 125					
GW 70 423 P	3P	236,5x316x178	-	4 insulation	1
GW 70 423 NP	3P+N	236,5x316x178	-	4 insulation	1
GW 70 424 P	4P	236,5x316x178	-	4 insulation	1
Rated current (A): 160					
GW 70 425 P	3P	236,5x316x178	-	4 insulation	1
GW 70 425 NP	3P+N	236,5x316x178	-	4 insulation	1
GW 70 426 P	4P	236,5x316x178	-	4 insulation	1

NOTE: Can be padlocked in both ON and OFF positions with a maximum of three locks, each with a diameter of up to 8 mm. The 63-100A 6P-8P versions can be padlocked only in the OFF position, with an IP66/IP69 protection rating. Versions 100-160A, up to 4P, and 63-100A, 6P and 8P, allow for the installation of a maximum of 2 x M63 cable glands. All Lid screws are sealable.

Emergency versions



GW 70 436 P

Surface-mounting isolator - emergency version with lockable red knob - IP66/IP67/IP69					
Code	No. of poles	Outer dim. LxHxD (mm)	Cable entries	Lid screws (no. and type)	Pack Carton
Rated current (A): 16					
GW 70 431 P	2P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 432 P	3P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 432 NP	3P+N	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 433 P	4P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 641 P	6P	153,6x200,6x117	4xM20	4 insulation	1/4
GW 70 661 P	8P	153,6x200,6x117	4xM20	4 insulation	1/4
Rated current (A): 25					
GW 70 486 P	2P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 487 P	3P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 487 NP	3P+N	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 488 P	4P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 642 P	6P	153,6x200,6x117	4xM25	4 insulation	1/4
GW 70 662 P	8P	153,6x200,6x117	4xM25	4 insulation	1/4
Rated current (A): 32					
GW 70 434 P	2P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 435 P	3P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 435 NP	3P+N	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 436 P	4P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 643 P	6P	153,6x200,6x117	4xM25	4 insulation	1/4
GW 70 663 P	8P	153,6x200,6x117	4xM25	4 insulation	1/4
Rated current (A): 40					
GW 70 441 P	2P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 442 P	3P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 442 NP	3P+N	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 443 P	4P	125x150x75,5	2 x M20/25 + 2 x M20/25	4 insul. 1/4 turn	1/16
GW 70 644 P	6P	153,6x200,6x117	4xM32	4 insulation	1/4
GW 70 664 P	8P	153,6x200,6x117	4xM32	4 insulation	1/4
Rated current (A): 63					
GW 70 437 P	3P	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 437 NP	3P+N	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 438 P	4P	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 645 P	6P	236,5x315,5x178	-	4 insulation	1
GW 70 665 P	8P	315,5x236,5x178	-	4 insulation	1
Rated current (A): 80					
GW 70 489 P	3P	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 489 NP	3P+N	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
GW 70 490 P	4P	156x200x95	2 x M25/32 + 2 x M25/32	4 insul. 1/4 turn	1/6
Rated current (A): 100					
GW 70 491 P	3P	236,5x316x178	-	4 insulation	1
GW 70 491 NP	3P+N	236,5x316x178	-	4 insulation	1
GW 70 492 P	4P	236,5x316x178	-	4 insulation	1
GW 70 647 P	6P	236,5x315,5x178	-	4 insulation	1
GW 70 667 P	8P	315,5x236,5x178	-	4 insulation	1
Rated current (A): 125					
GW 70 493 P	3P	236,5x316x178	-	4 insulation	1
GW 70 493 NP	3P+N	236,5x316x178	-	4 insulation	1
GW 70 494 P	4P	236,5x316x178	-	4 insulation	1
Rated current (A): 160					
GW 70 495 P	3P	236,5x316x178	-	4 insulation	1
GW 70 495 NP	3P+N	236,5x316x178	-	4 insulation	1
GW 70 496 P	4P	236,5x316x178	-	4 insulation	1

NOTE: Can be padlocked in the OFF position with a maximum of three locks, each with a diameter of up to 8 mm. The 63-100A 6P-8P versions can be padlocked only in the OFF position, with an IP66/IP69 protection rating. Versions 100-160A, up to 4P, and 63-100A, 6P and 8P, allow for the installation of a maximum of 2 x M63 cable glands. All Lid screws are sealable.

70 RT HP in insulating enclosure

ROTARY ISOLATOR SWITCHES IN INSULATING ENCLOSURE

Rotary isolator switches are available in control (with a black knob) or emergency versions (with a red knob). Complying with EN 60947-3 standard.

Electrical data 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

Rated current IEC			16A	25A	32A	40A	63A	80A	100A	125A	160A
Rated insulation voltage Ui		VAC	690	690	690	690	690	690	1000	1000	1000
Rated impulse withstand voltage Uimp		kV	4	4	4	4	4	4	8	8	8
Thermal current Ith/Ithe		A	16	25	32	40	63	80	100	125	160
Rated operational current IEC	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125
	AC23A Switching of motor loads or other highly inductive loads (3 phases/3 poles)	415V	A	16	25	32	40	63	80	100	125
			A	160	250	320	400	630	800	2500	2500
Rated short time withstand current Icw (1s)		415V	10	10	10	10	6	6	10	10	10
Conditional short circuit current (Icc)		500V	kA	6	6	6	6	6	6	6	6
Associated fuse for conditional short circuit current - Type gG		A	16	25	32	40	63	80	100	125	160
WIRING *											
Tightening torque		Nm	1				3		6		
Max. flexible wire		mm²	1 ÷ 10				2,5 ÷ 25		4 ÷ 70		
Max. rigid wire		mm²	1 ÷ 10				2,5 ÷ 25		4 ÷ 70		

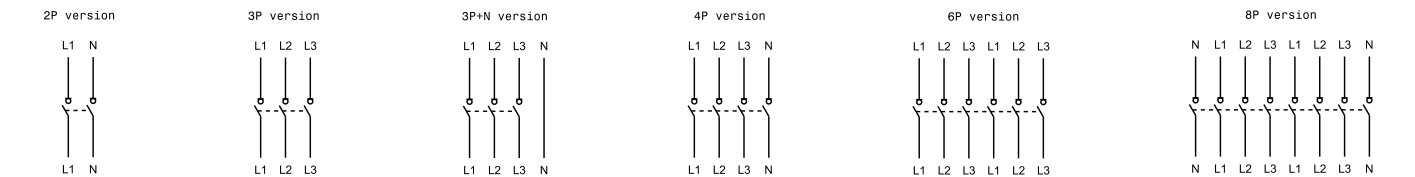
* The surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

Electrical data 16 A ÷ 100 A 6P, 8P

Rated current IEC			16A	25A	32A	40A	63A	100A
Rated insulation voltage Ui		VAC	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage Uimp		kV	8	8	8	8	8	8
Thermal current Ith/Ithe		A	16	25	32	40	63	100
Rated operational current IEC	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63
	AC23A Switching of motor loads or other highly inductive loads (3 phases/3 poles)	415V	A	16	25	32	40	63
			A	10	10	10	10	10
Conditional short circuit current (Icc)		415V	kA	40	40	40	40	100
Associated fuse for conditional short circuit current - Type gG		A	40	40	40	40	100	100
WIRING *								
Tightening torque		Nm	2				6	
Max. flexible wire		mm²	0,75 ÷ 16				4 ÷ 70	
Max. rigid wire		mm²	0,75 ÷ 16				4 ÷ 70	

* The surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

WIRING DIAGRAM



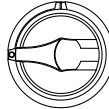
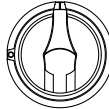
Behaviour with chemical and atmospheric agents										
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Not resistant	Limited resistance	Limited resistance	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Mechanical data 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

In (A)		16	25	32	40	63	80	100		125		160			
Poles	2P	x	x	x	x										
	3P	x	x	x	x	x	x	x		x		x			
	3P+N	x	x	x	x	x	x	x		x		x			
	4P	x	x	x	x	x	x		x		x		x		
Degree of protection		IP66/IP67/IP69													
Impact resistance		IK08													
Protection against indirect contact															
Glow Wire Test (°C)		650 (enclosure)													
Range of temperature (°C)		-25; +60													
Housable auxiliary contacts		Max. 2 (1 per side)						Max. 4 (2 per side)	Max. 3 (2 on one side + 1 on opposite side)	Max. 4 (2 per side)	Max. 3 (2 on one side + 1 on opposite side)	Max. 4 (2 per side)	Max.1		
Cable entries	Upper sides	2 x M20/M25				2 x M25/M32		-							
	Lower sides	2 x M20/M25				2 x M25/M32		-							
Knob position		Open - OFF position 						Close - ON position 		Open - OFF position 				Close - ON position 	

NOTE: to install the enclosure by drilling the internal fixing points, it is necessary to use the screw caps GW 44 622 or GW 44 623 to maintain the double insulation and the IP protection degree. Only operate the knob with the cover screws fully tightened.

Mechanical data 16 A ÷ 100 A 6P, 8P

In (A)		16		25		32		40		63		100	
Poles	6P	x		x		x		x		x		x	
	8P		x		x		x		x		x		x
Degree of protection		IP66/67/69									IP66/69		
Impact resistance		IK08											
Protection against indirect contact													
Glow Wire Test (°C)		650 (enclosure)											
Range of temperature (°C)		-25; +60											
Housable auxiliary contacts		Max. 4 (2 per side)	Max. 1	Max. 4 (2 per side)	Max. 1	Max. 4 (2 per side)	Max. 1	Max. 4 (2 per side)	Max. 1	Max. 1	Max. 2 (1 per side)	Max. 1	Max. 2 (1 per side)
Cable entries	Upper sides	2 x M20		2 x M25				2 x M32		-			
	Lower sides	2 x M20		2 x M25				2 x M32		-			
Knob position		Open - OFF position						Close - ON position					
													

NOTE: to install the enclosure by drilling the internal fixing points, it is necessary to use the screw caps GW 44 622 or GW 44 623 to maintain the double insulation and the IP protection degree.

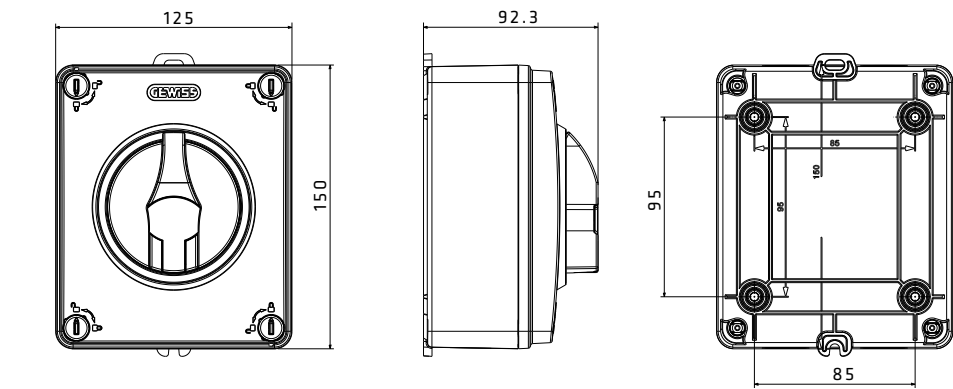
Auxiliary Contacts

Technical data	
type: Auxiliary Contacts NO or NC	Thermal current in Air (Ith): 16 A
Rated insulation voltage (Ui): 400 V	Thermal current in Enclosure (Ithe): 10A
Conditional short circuit current (Icc - 400 V): 1 kA	Rated impulse withstand voltage (Uimp): 4 kV
Associated fuse size for conditional short circuit current - Type gG: 6A	Category of uses AC15: 6A (230V)
Tightening torque: 0,8 Nm	3A (380V)

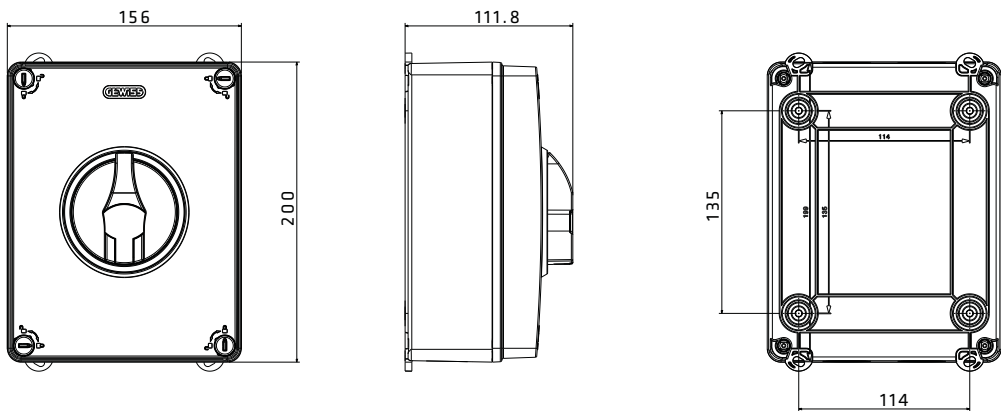
70 RT HP in insulating enclosure

Dimension tables 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

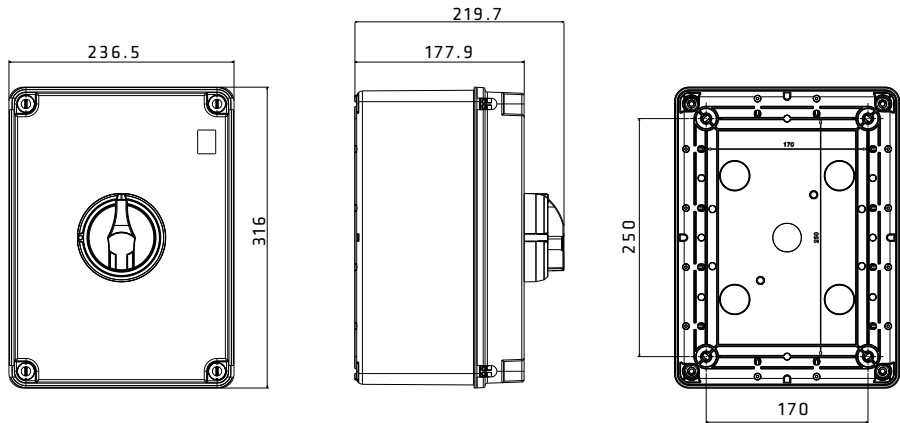
ISOLATORS IN ENCLOSURE 16 A ÷ 40 A



ISOLATORS IN ENCLOSURE 63 A - 80 A

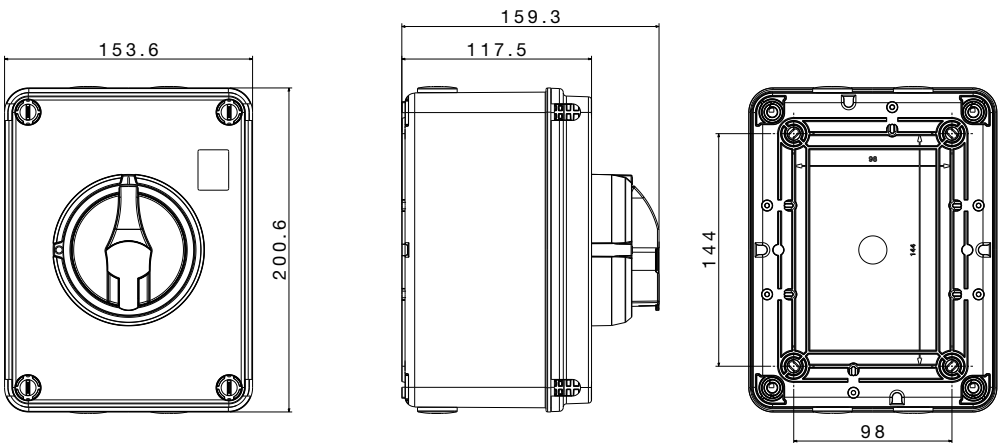


ISOLATORS IN ENCLOSURE 100 A ÷ 160 A

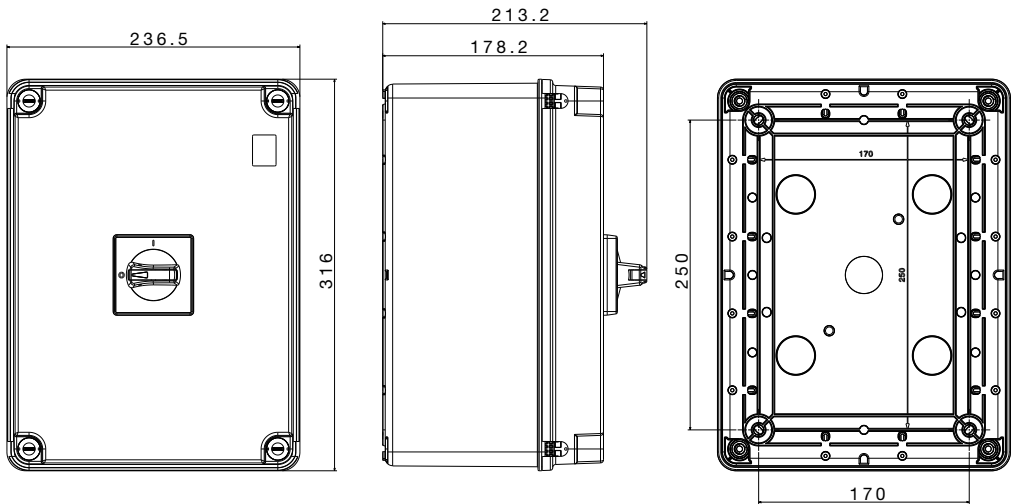


Dimension tables 16 A ÷ 100 A 6P, 8P

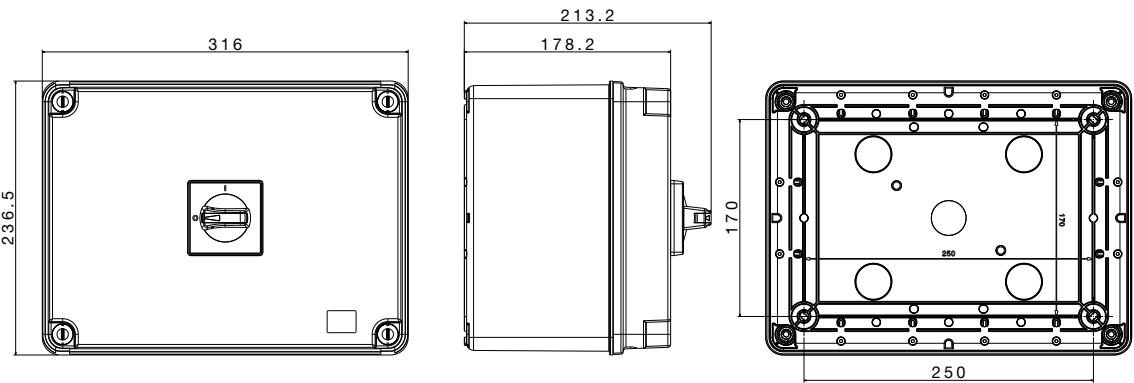
ISOLATORS IN ENCLOSURE 16 A ÷ 40 A 6P - 8P



ISOLATORS IN ENCLOSURE 63 A ÷ 100 A 6P



ISOLATORS IN ENCLOSURE 63 A ÷ 100 A 8P





70 RT HP in aluminium enclosure



TOTAL PROTECTION

- ① IP66 / IP69 - Total protection from dust and water.
- ② Four external wall mounting eyelets to maintain the protection rating and stability.
- ③ IK11 - High level of impact resistance for versions from 16A to 80A, 2P, 3P, 3P+N, 4P and from 16A to 40A 6P, 8P.
- ④ SAFETY
 - ON/OFF status indication for safe operation: visually clear.
 - **Patented locking system:** hidden inside the handle, allows locking in ON or OFF position (OFF only for Emergency version).
 - Up to 3 padlocks can be installed simultaneously.
- ⑤ Front label for easy reading of technical data and standards.

- ⑥ **MADE IN ITALY** (imprinted on enclosure) Patented design. 60-micron polyester powder coating provides durability, corrosion resistance and an appealing finish.

QUICK ASSEMBLY

- ⑦ Simple wiring for time saving and optimized installation space.
- ⑧ Double metric entries on both top and bottom sides (up to 80A 4P and 40A 8P).
- ⑨ Earthing wiring predisposition with clearly marked drilling points.

RELIABILITY

- ⑩ Ergonomic handle resistant to high mechanical stress – solid grip and anti-dirt design.
- ⑪ High resistance to UV rays
- ⑫ High resistance to chemicals

ACCESSORIABILITY

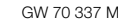
- ⑬ Housable auxiliary contacts

Emergency version





NOTE: Can be padlocked in both ON and OFF positions with a maximum of 3 locks, with a diameter of up to 8 mm. Versions 100-160A, up to 4P, and 63-100A, 6P and 8P allow for the installation of a maximum of 2 x M63 cable glands.



NOTE: Can be padlocked in the OFF position with a maximum of 3 locks, with a diameter of up to 8 mm. Versions 100-160A, up to 4P, and 63-100A, 6P and 8P, allow for the installation of a maximum of 2 x M63 cable glands.

70 RT HP in aluminium enclosure

ROTARY ISOLATOR SWITCHES IN ALUMINIUM ENCLOSURE

Rotary isolator switches are available in control (with a black knob) or emergency versions (with a red knob). Complying with EN 60947-3 standard.

Electrical data 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

Rated current IEC			16A	25A	32A	40A	40A HWC	63A	80A	100A	125A	160A	
Rated insulation voltage Ui			VAC	690	690	690	690	690	690	1000	1000	1000	
Rated impulse withstand voltage Uimp			kV	4	4	4	4	4	4	8	8	8	
Thermal current Ith/Ithe			A	16	25	32	40	63	80	100	125	160	
Rated operational current IEC	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160	
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	125	
	AC23A Switching of motor loads or other highly inductive loads (3 phases/3 poles)	415V	A	16	25	32	40	63	80	100	125	125	
	Rated short time withstand current Icw (1s)		A	160	250	320	400	630	800	2500	2500	2500	
Conditional short circuit current (Icc)		415V	kA	10	10	10	10	6	6	10	10	10	
		500V		6	6	6	6	6	6	6	6	6	
Associated fuse for conditional short circuit current - Type gG			A	16	25	32	40	63	80	100	125	160	
WIRING *													
Tightening torque			Nm	1				3		6			
Max. flexible wire			mm²	1 ÷ 10				1 ÷ 16		2,5 ÷ 25		4 ÷ 70	
Max. rigid wire			mm²	1 ÷ 10				1 ÷ 16		2,5 ÷ 25		4 ÷ 70	

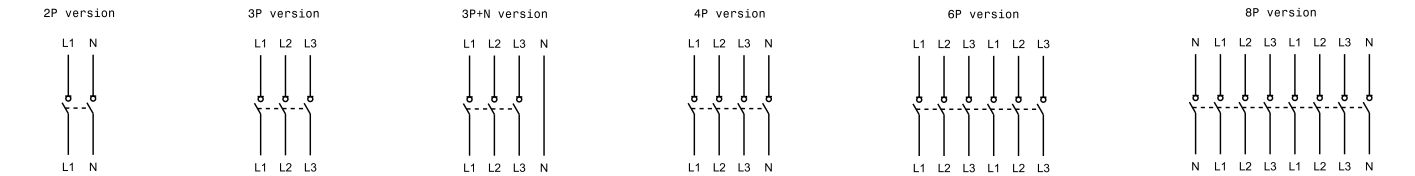
* The surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

Electrical data 16 A ÷ 100 A 6P, 8P

Rated current IEC			16A	25A	32A	40A	63A	100A
Rated insulation voltage Ui		VAC	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage Uimp		kV	8	8	8	8	8	8
Thermal current Ith/Ithe		A	16	25	32	40	63	100
Rated operational current IEC	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	100
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	100
	AC23A Switching of motor loads or other highly inductive loads (3 phases/3 poles)	415V	A	16	25	32	40	100
	Conditional short circuit current (Icc)		415V	kA	10	10	10	10
Associated fuse for conditional short circuit current - Type gG		A	40	40	40	40	100	100
WIRING *								
Tightening torque		Nm	2					6
Max. flexible wire		mm²	0,75 ÷ 16					4 ÷ 70
Max. rigid wire		mm²	0,75 ÷ 16					4 ÷ 70

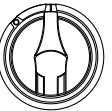
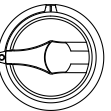
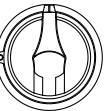
* The surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

WIRING DIAGRAM

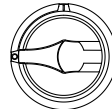
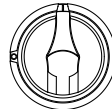


Behaviour with chemical and atmospheric agents										
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Limited resistance	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Mechanical data 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

In (A)		16	25	32	40	40 HWC	63	80		100		125		160	
Poles	2P	x	x	x	x	x									
	3P	x	x	x	x	x	x	x	x		x		x		
	3P+N	x	x	x	x	x	x	x	x		x		x		
	4P	x	x	x	x	x	x	x		x		x		x	
Degree of protection		IP66/IP69													
Impact resistance	Enclosure	IK11							IK10						
	Knob	IK08													
Glow Wire Test (°C)		650 (knob)													
Range of temperature (°C)		-25; +60													
Housable auxiliary contacts		Max. 2 (1 per side)							Max. 4 (2 per side)	Max. 3 (1 side fourth pole + 2 opposite side)	Max. 4 (2 per side)	Max. 3 (1 side fourth pole + 2 opposite side)	Max. 4 (2 per side)	Max. 1	
Cable entries*	Upper sides	1 x M20 + 1 x M25				2 x M25		2 x M32		-					
	Lower sides	1 x M20 + 1 x M25				2 x M25		2 x M32		-					
Pre-arrangement	Upper sides	2 x drilling points M16 max							-						
	Lower sides	2 x drilling points M16 max							-						
	Back	2 x drilling points M25 max				2 x drilling points M25 max		2 x drilling points M32 max		-					
Knob position		Open - OFF position				Close - ON position				Open - OFF position				Close - ON position	
															
Tightening torque	Cover screws	2 Nm													
	Caps	2 Nm							-						
	Nuts	2 Nm							-						

Mechanical data 16 A ÷ 100 A 6P, 8P

In (A)		16		25		32		40		63		100	
Poles	6P	x		x		x		x		x		x	
	8P		x		x		x		x		x		x
Degree of protection		IP66/69											
Impact resistance	Enclosure	IK11									IK10		
	Knob	IK08											
Glow Wire Test (°C)		650 (enclosure)											
Range of temperature (°C)		-25; +60											
Housable auxiliary contacts		Max. 4 (2 per side)	Max. 2 (1 per side)	Max. 4 (2 per side)	Max. 2 (1 per side)	Max. 4 (2 per side)	Max. 2 (1 per side)	Max. 4 (2 per side)	Max. 2 (1 per side)	Max. 4 (2 per side)	Max. 1	Max. 4 (2 per side)	Max. 1
Cable entries*	Upper sides	2 x M20					2 x M25					-	
	Lower sides	2 x M20					2 x M25					-	
Pre-arrangement	Upper sides	2 x drilling points M16 max									-		
	Lower sides	2 x drilling points M16 max									-		
	Back	2 x drilling points M20 max					2 x drilling points M25 max				-		
Knob position		Open - OFF position					Close - ON position						
													
Tightening torque	Cover screws	2 Nm											
	Caps	2 Nm									-		
	Nuts	2 Nm									-		

* It's recommended to install cable glands with a minimum thread length of 10 mm.

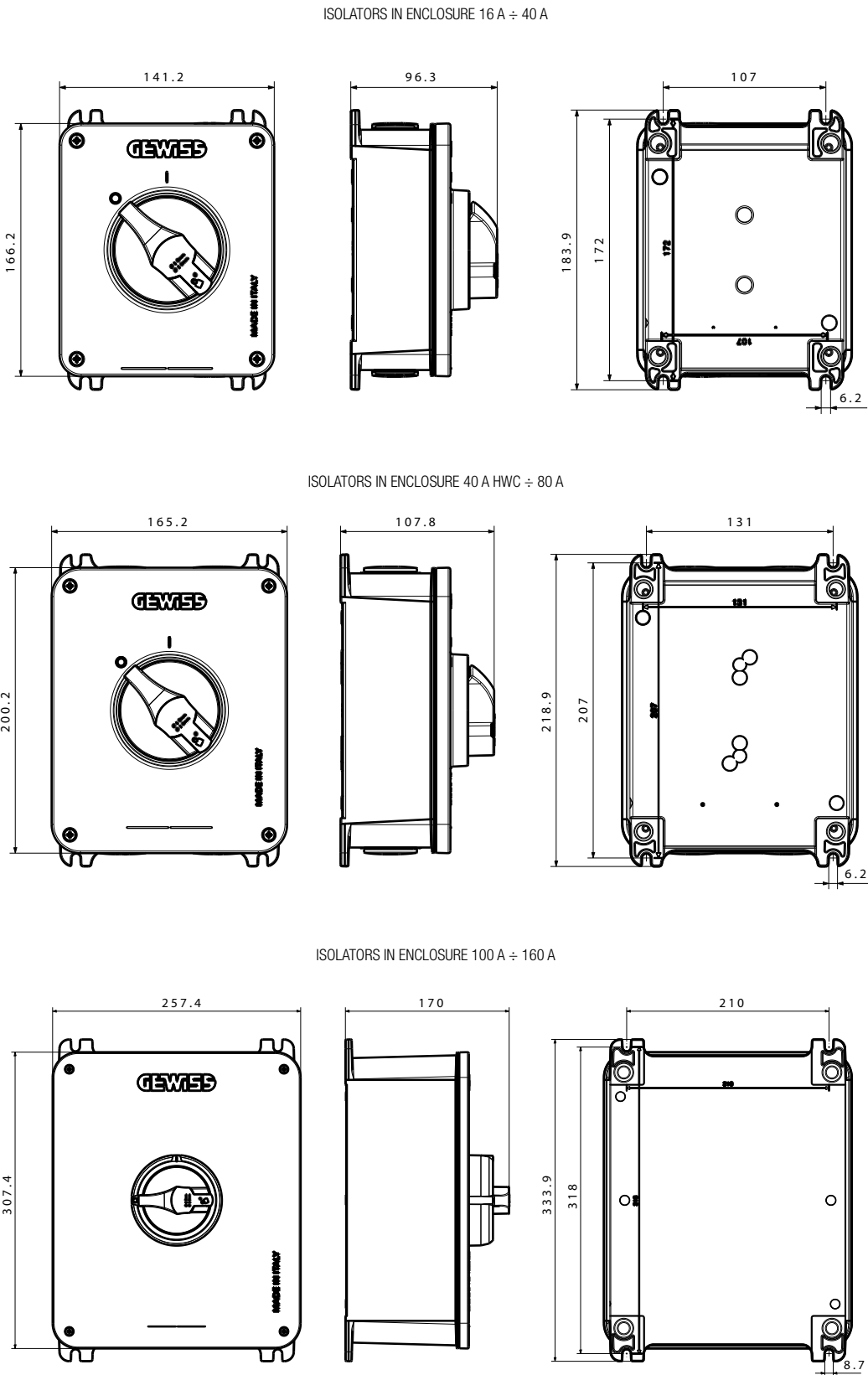
Auxiliary Contacts

Technical data	
Type: Auxiliary Contacts NO or NC	Thermal current in Air (Ith): 16 A
Rated insulation voltage (Ui): 400 V	Thermal current in Enclosure (Ithe): 10A
Conditional short circuit current (Icc - 400 V): 1 kA	Rated impulse withstand voltage (Uimp): 4 kV
Associated fuse size for conditional short circuit current - Type gG: 6A	Category of uses AC15: 6A (230V)
Tightening torque: 0,8 Nm	3A (380V)

70 RT HP in aluminium enclosure

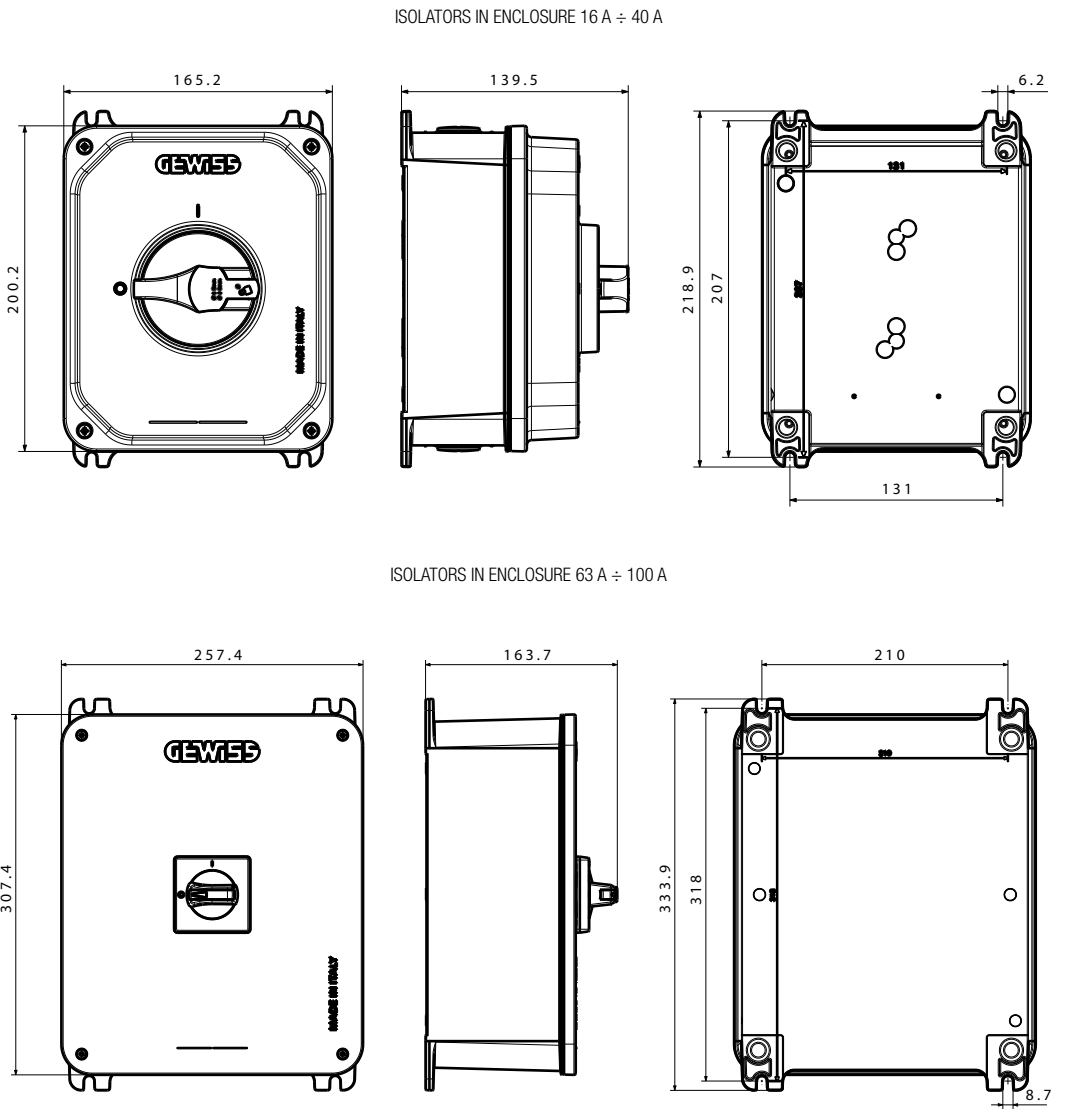
Dimension tables 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

Isolators in aluminium enclosure



Dimension tables 16 A ÷ 100 A 6P, 8P

Isolators in aluminium enclosure



70 RT HP in insulating enclosure for direct current

70 RT HP - SURFACE MOUNTING ROTARY ISOLATOR IN INSULATING ENCLOSURE IN DIRECT CURRENT - IP66/IP67/IP69

Versions for photovoltaic application



Surface-mounting isolator - control version with lockable black knob - IP66/IP67/IP69					
Code	No. of poles	Outer dim. LxHxD (mm)	Cable entries	Lid screws (no. and type)	Pack Carton
Rated current (A): 16					
GW 70 231	2P	153,6x200,6x117	4xM20	4 insulation	1/4
Rated current (A): 25					
GW 70 235	3P	153,6x200,6x117	4xM20	4 insulation	1/4
Rated current (A): 32					
GW 70 238	3P	153,6x200,6x117	4xM20	4 insulation	1/4
GW 70 239	4P	153,6x200,6x117	4xM25	4 insulation	1/4
Rated current (A): 40					
GW 70 242	4P	153,6x200,6x117	4xM25	4 insulation	1/4

GW 70 231

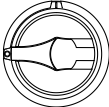
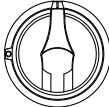
ROTARY ISOLATOR SWITCHES IN DIRECT CURRENT

Rotary disconnecter switches in insulating enclosure.
Complying with EN 60947-3 standard and CEI EN 60947-3:2021 (Annex D) for photovoltaic applications.

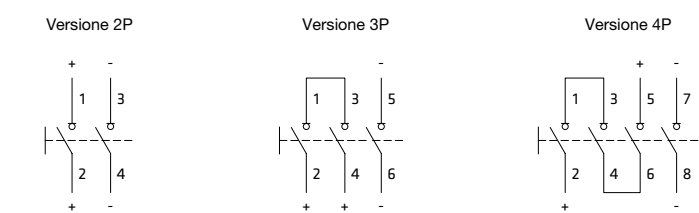
Electrical data

Rated current IEC				16A	25A	32A	32A	40A
Rated operational current IEC	DC-PV1 Connection and disconnection of individual PV strings. Where significant reverse currents and overcurrents cannot occur	≤800V	A	25	25	32	32	32
		1000V	A	16	25	32	32	32
		1200V	A				25	32
		1500V	A				20	25
Rated insulation voltage Ui			VDC	1000				
Rated impulse withstand voltage Uimp			kV	8				
Thermal current Ith/Ithe			A	25 / 25	25 / 25	32 / 32	32 / 32	40 / 32
Rated short time withstand current Icw (1s)			A	500				
WIRING								
Tightening torque			Nm	1,2				
Max. flexible wire			mm²	1 ÷ 10				
Max. rigid wire			mm²	1 ÷ 10				

Mechanical data

In (A)	16	25	32		40
Poles	2P	3P	3P	4P	4P
Degree of protection	IP66/IP67/IP69				
Impact resistance	IK08				
Protection against indirect contact	□				
Glow Wire Test (°C)	960 (isolator); 650 (box)				
Range of temperature (°C)	-25; +60				
Cable entries	Upper sides	2 x M20	2 x M20	2 x M25	2 x M25
	Lower sides	2 x M20	2 x M20	2 x M25	2 x M25
Knob position					
		Open - OFF position		Close - ON position	
					

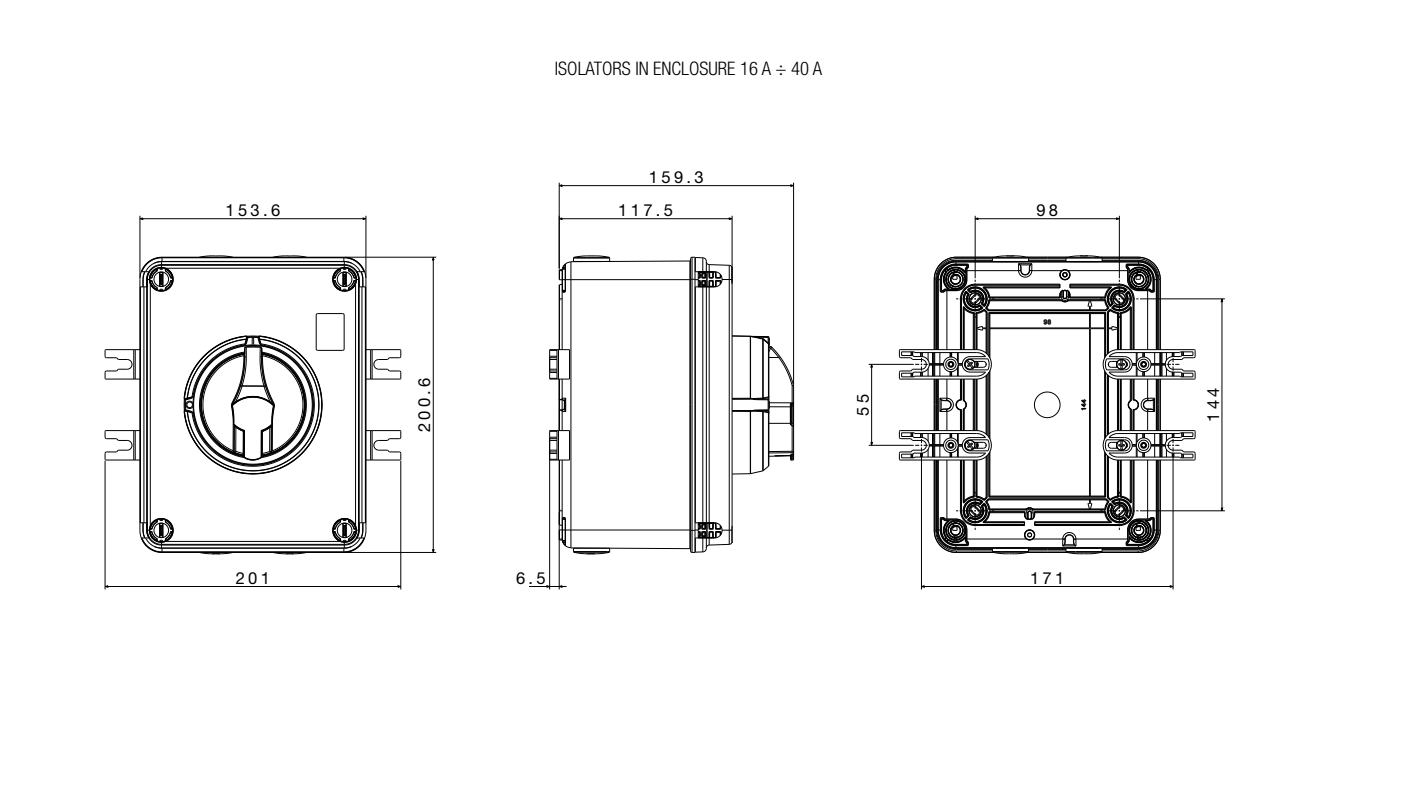
WIRING DIAGRAM



Behaviour with chemical and atmospheric agents										
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Not resistant	Limited resistance	Limited resistance	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Dimension tables

Isolators in enclosure



70 RT HP ATEX version in aluminium enclosure

70 RT ATEX DISCONNECTORS - ALUMINIUM ENCLOSURE

Control versions in aluminium alloy box



GW 70 451

ATEX rotary wall-mounting switches for control, with black knob - IP65				
Code	No. of poles	Power AC3 400V (kW)	Outer dim. LxHxD (mm)	Pack Carton
Rated current (A): 16				
GW 70 451	2P	6 (230V)	140x165x135	1
GW 70 452	3P	10	140x165x135	1
GW 70 453	4P	10	140x165x135	1
Rated current (A): 32				
GW 70 454	2P	9 (230V)	140x165x135	1
GW 70 455	3P	15	140x165x135	1
GW 70 456	4P	15	140x165x135	1
Rated current (A): 63				
GW 70 457	3P	18.5	140x165x135	1
GW 70 458	4P	18.5	140x165x135	1
Rated current (A): 100				
GW 70 459	3P	30	215x252x94	1
GW 70 460	4P	30	215x252x94	1

ACCESSORIES SUPPLIED: cable gland M25 for 16A versions, M32 for 32-63A versions, and M40 for 100A.
CHARACTERISTICS: box in aluminium alloy painted in Grey RAL 7037.
ATEX Classification: Equipment-group II Category 3D.
Dust protection mode: tc.
Room temperature: -20°C <= Ta <= +40 °C.
NOTES: Can be padlocked with 3 locks in the OFF position and one in the ON position.

Emergency versions in aluminium alloy box



GW 70 471

ATEX rotary wall-mounting switches for emergency, with red knob - IP65				
Code	No. of poles	Power AC3 400V (kW)	Outer dim. LxHxD (mm)	Pack Carton
Rated current (A): 16				
GW 70 471	2P	6 (230V)	140x165x135	1
GW 70 472	3P	10	140x165x135	1
GW 70 473	4P	10	140x165x135	1
Rated current (A): 32				
GW 70 474	2P	9 (230V)	140x165x135	1
GW 70 475	3P	15	140x165x135	1
GW 70 476	4P	15	140x165x135	1
Rated current (A): 63				
GW 70 477	3P	18.5	140x165x135	1
GW 70 478	4P	18.5	140x165x135	1
Rated current (A): 100				
GW 70 479	3P	30	215x252x94	1
GW 70 480	4P	30	215x252x94	1

ACCESSORIES SUPPLIED: cable gland M25 for 16A versions, M32 for 32-63A versions, and M40 for 100A.
CHARACTERISTICS: box in aluminium alloy painted in Grey RAL 7037.
ATEX Classification: Equipment-group II Category 3D.
Dust protection mode: tc.
Room temperature: -20°C <= Ta <= +40 °C.
NOTES: Can be padlocked with 3 locks in the OFF position.

70 RT ATEX DISCONNECTORS - ALUMINIUM ENCLOSURE - ZONE 22 (D)

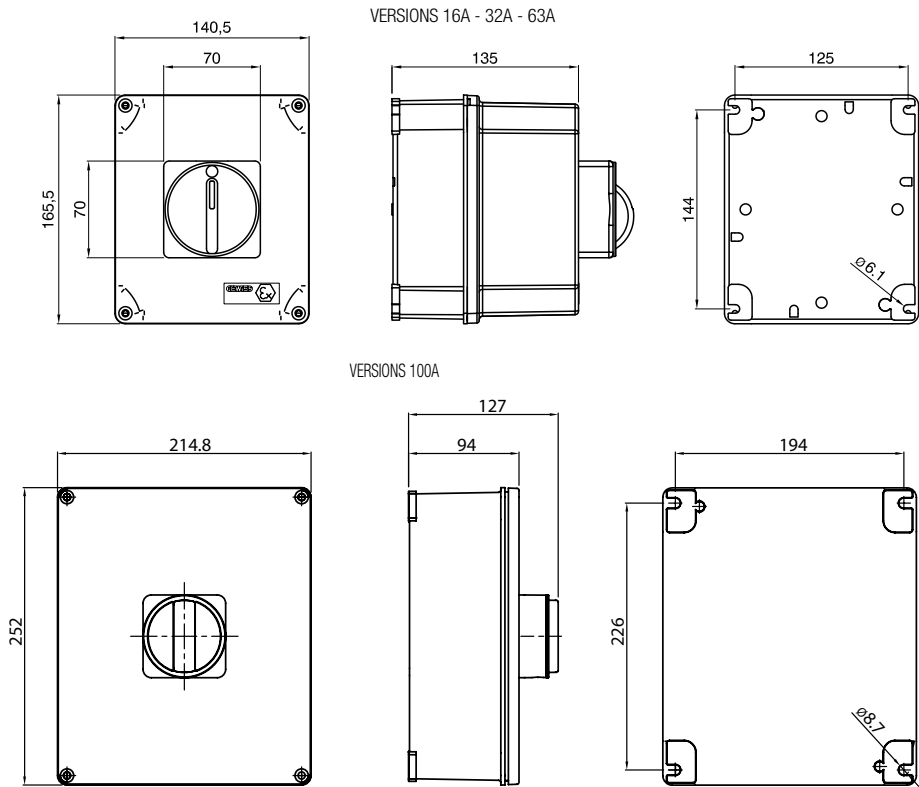
Switch disconnectors for command and emergency use in an aluminium enclosure painted in Grey RAL 7037. Suitable for use in Zone 22(D) with rated currents of 16, 32, 63, or 100A.

TECHNICAL DATA					16A	32A	63A	100A
Vn insulation		Ui (IEC947-3)		V	800			
Vn of impulse withstand		Uimp (IEC947-3)		kV	8			
In thermal	In air	Ith (IEC947-3)		A	25	40	63	100
	In box	Ithe (IEC947-3)		A	16	32	63	95
In use	AC21A	Ie (IEC947-3)		400V	A	16	32	63
	AC22A		400V	A	16	32	63	95
Max power with three-phase motors	AC23A	IEC947-3	400V	kW	7	14	28	42
In short lifespan		Icw		A	400	800	1500	1500
In cond. of short-circuiting		IEC947-3		kAeff	10	10	15	15
CONNECTABLE SECTIONS								
Rigid cables			min-max	mm2	1,5-16	1,5-16	2,5-35	10-70
				AWG	16-6	16-6	14-3	8-00
Flexible cables			min-max	mm2	1,5-16	1,5-16	2,5-35	10-70
				AWG	16-6	16-6	14-3	8-00
CONDITIONS OF USE								
Ambient temperature	of storage			°C	-30; +70			
	of operation			°C	-25; +55			

NOTE: for the behavior with chemical and atmospheric agents, contact SAT Customer Service (+ 39 035/946111).

Dimension tables

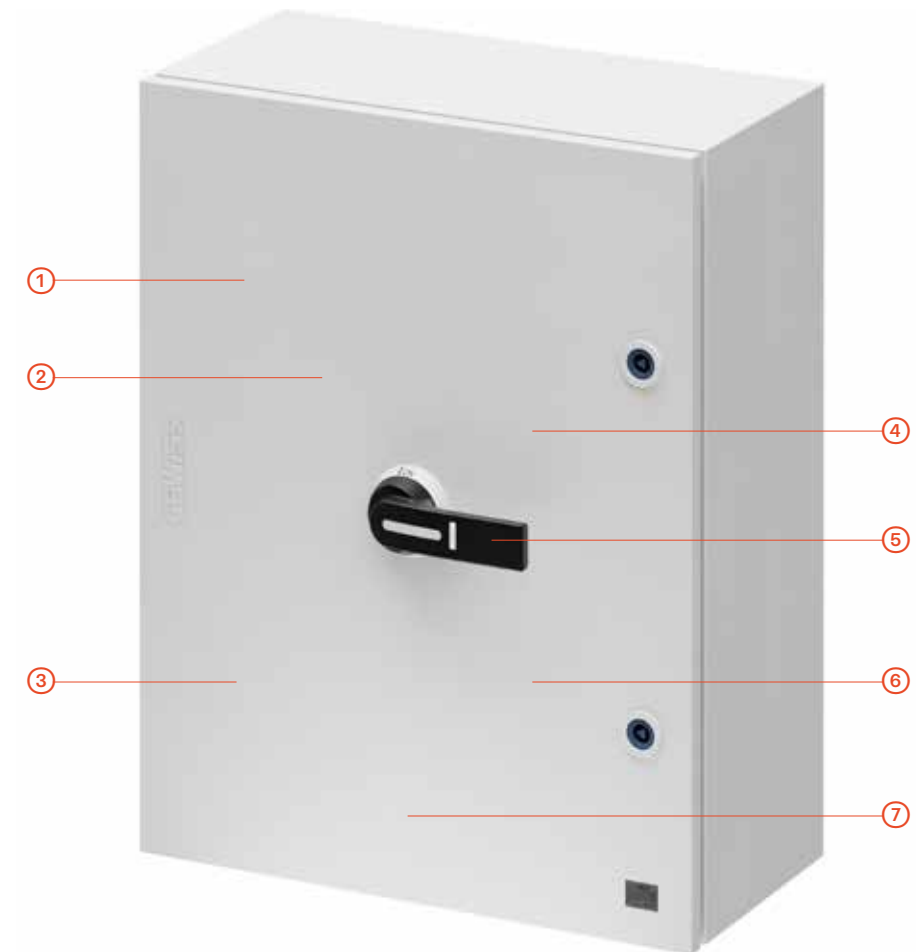
Switch disconnectors for command and emergency





70 RT HP

Version for boards/DIN rail



TOTAL PROTECTION

- ① Watertight surface-mounting distribution and automation boards.
- ② Different material available:
 - Fiberglass-reinforced polyester - IP66
 - Metal - IP55
 - Stainless steel - IP55
- ③ IK10 - Boards with blank door withstand high level of mechanical stress.
- ④ High current versions available up to 1000 A.
- ⑤ **SAFETY:**
ON/OFF status indication for safe operation: visually clear.
- ⑥ Resistance to UV rays.

EASY ASSEMBLY

Installation manual available on gewiss.com



ACCESSORIABILITY

- ⑦ Housable auxiliary contacts.

Emergency version



70 RT HP version for boards/DIN rail

ROTARY ISOLATORS FOR AUTOMATION AND DISTRIBUTION BOARDS

Versions for boards 16 ÷ 160 A



GW 70 001

Isolator switches for distribution board with padlockable red/yellow knob and control transmission shaft				
Code	No. of poles	No. of modules EN 50022	Regulation field	Pack Carton
Rated current (A): 16				
GW 70 001	2P	4	87 - 145 mm	1/10
GW 70 002	3P	4	87 - 145 mm	1/10
GW 70 003	4P	4	87 - 145 mm	1/10
Rated current (A): 25				
GW 70 052	3P	4	87 - 145 mm	1/10
GW 70 053	4P	4	87 - 145 mm	1/10
Rated current (A): 32				
GW 70 004	2P	4	87 - 145 mm	1/10
GW 70 005	3P	4	87 - 145 mm	1/10
GW 70 006	4P	4	87 - 145 mm	1/10
Rated current (A): 40				
GW 70 055	3P	4	87 - 145 mm	1/10
GW 70 056	4P	4	87 - 145 mm	1/10
Rated current (A): 63				
GW 70 007	3P	5	114 - 177 mm	1/5
GW 70 008	4P	5	114 - 177 mm	1/5
Rated current (A): 80				
GW 70 058	3P	5	114 - 177 mm	1/5
GW 70 059	4P	5	114 - 177 mm	1/5
Rated current (A): 100				
GW 70 061	3P	4	Max 194 mm	1/6
GW 70 062	4P	6	Max 194 mm	1/6
Rated current (A): 125				
GW 70 064	3P	4	Max 194 mm	1/6
GW 70 065	4P	6	Max 194 mm	1/6
Rated current (A): 160				
GW 70 067	3P	4	Max 194 mm	1/6
GW 70 068	4P	6	Max 194 mm	1/6
CHARACTERISTICS: the regulation field can be obtained by cutting the supplied shaft. Versions for panel/door mounting, 16A ÷ 80A, can be accessorized with GW 70 009 galvanized steel extending brackets.				



GW 70 009

Versions for boards 200 ÷ 1000 A



GW 70 070

Isolator switches for distribution board with padlockable black knob and control transmission shaft				
Code	No. of poles	No. of modules EN 50022	Regulation field	Pack Carton
Rated current (A): 200				
GW 70 070	3P	9	152 - 246 mm	1
GW 70 071	4P	11	152 - 246 mm	1
Rated current (A): 250				
GW 70 073	3P	9	152 - 246 mm	1
GW 70 074	4P	11	152 - 246 mm	1
Rated current (A): 315				
GW 70 076	3P	12	161 - 256 mm	1
GW 70 077	4P	14	161 - 256 mm	1
Rated current (A): 400				
GW 70 079	3P	12	161 - 256 mm	1
GW 70 080	4P	14	161 - 256 mm	1
Rated current (A): 630				
GW 70 085	3P	16	212 - 282 mm	1
GW 70 086	4P	20	212 - 282 mm	1
Rated current (A): 800				
GW 70 088	3P	16	212 - 282 mm	1
GW 70 089	4P	20	212 - 282 mm	1
Rated current (A): 1000				
GW 70 091	3P	16	212 - 282 mm	1
GW 70 092	4P	20	212 - 282 mm	1

Versions for fixing on DIN rail



GW 70 203

Isolator switches for DIN rail with black knob			
Code	No. of poles	No. of modules EN 50022	Pack Carton
Rated current (A): 16			
GW 70 201	2P	4	1/24
GW 70 202	3P	4	1/24
GW 70 203	4P	4	1/24
Rated current (A): 32			
GW 70 204	2P	4	1/24
GW 70 205	3P	4	1/24
GW 70 206	4P	4	1/24
Rated current (A): 63			
GW 70 207	3P	5	1/12
GW 70 208	4P	5	1/12

70 RT HP version for boards/DIN rail

RECOMMENDED DISTRIBUTION BOARD FOR DIFFERENT ROTARY ISOLATOR SWITCHES

DISTRIBUTION BOARD					N. of poles		ROTARY ISOLATOR SWITCHES						
					3P		GW 70 070	GW 70 073	GW 70 076	GW 70 079	GW 70 085	GW 70 088	GW 70 091
					4P		GW 70 071	GW 70 074	GW 70 077	GW 70 080	GW 70 086	GW 70 089	GW 70 092
Dimensions LxHxD (mm)	46 QP POLYESTER BOARDS IP66	46 QM METAL BOARDS IP55	46 QX STAINLESS STEEL BOARDS IP55	Back-mounting plate	Tamb (Thermal check according CEI 17-43)		200A	250A	315A	400A	630A	800A	1000A
													
515 x 650 x 250	GW 46 005 F	GW 46 035		GW 46 405	25 °C		✓	✓					
					30 °C		✓	✓					
					35 °C		✓	✓					
585 x 800 x 300	GW 46 006 F	GW 46 036	GW 46 056	GW 46 406	25 °C		✓	✓	✓	✓			
					30 °C		✓	✓	✓	✓			
					35 °C		✓	✓	✓				
800 x 1060 x 350	GW 46 007 F	GW 46 037		GW 46 407	25 °C		✓	✓	✓	✓	✓	✓	✓
					30 °C		✓	✓	✓	✓	✓	✓	
					35 °C		✓	✓	✓	✓	✓	✓	
	 Set of 4 brackets for fixing surface-mounting boards GW46446/GW46451			Shaft for board			Included		GW 70 040		GW 70 041		

NOTE: the table above shows the compatibility and recommended boards for each isolator switch at various ambient temperatures. The back mounting plate and the shaft are required. Select the correct version as indicated in the table.
Refer to section "46 Watertight surface-mounting distribution and automation boards" on the GEWISS catalogue for any further information related to the boards and their accessories.

LEGEND:
✓ - Compatible
✓ - Suggested

70 RT HP version for boards/DIN rail

ROTARY ISOLATOR SWITCHES FOR DISTRIBUTION BOARDS

Rotary disconnecter switches in versions for board (16 A ÷ 1000 A) or for DIN rail (16 A ÷ 63 A).
Complying with EN 60947-3 standard.

Electrical data 16 A ÷ 160 A 2P, 3P, 4P

Rated current IEC		16A	25A	32A	40A	63A	80A	100A	125A	160A
Rated insulation voltage Ui		VAC	690	690	690	690	690	1000	1000	1000
Rated impulse withstand voltage Uimp		kV	4	4	4	4	4	8	8	8
Thermal current Ith/Ithe		A	16	25	32	40	63	80	100	125
Rated operational current IEC	AC21A	415V	A	16	25	32	40	63	80	100
	Resistive loads, including moderate overloads	500V	A	16	25	32	40	63	80	100
	AC22A	415V	A	16	25	32	40	63	80	100
	Mixed resistive and inductive loads, including moderate overloads	500V	A	16	25	32	40	63	80	100
	AC23A	415V	A	16	25	32	40	63	80	100
	Switching of motor loads or other highly inductive loads (3 phases/3 poles)	500V	A	16	25	32	40	63	80	100
Rated short time withstand current Icw (1s)		A	160	250	320	400	630	800	2500	2500
Conditional short circuit current (Icc)		415V	kA	10	10	10	10	6	6	10
		500V		6	6	6	6	6	6	6
Associated fuse for conditional short circuit current - Type gG		A	16	25	32	40	63	80	100	125
WIRING										
Tightening torque		Nm	1			3		6		
Max. flexible wire		mm²	1 ÷ 10			2,5 ÷ 25		4 ÷ 70		
Max. rigid wire		mm²	1 ÷ 10			2,5 ÷ 25		4 ÷ 70		

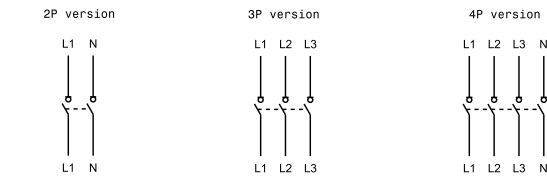
NOTE: the surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

Electrical data 200 A ÷ 1000 A 3P, 4P

Rated current IEC		200A	250A	315A	400A	630A	800A	1000A
Rated insulation voltage Ui		VAC	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage Uimp		kV	12	12	12	12	12	12
Thermal current Ith/Ithe		A	200	250	315	400	630	800
Rated operational current IEC	AC21A	415V	A	200	250	315	400	630
	Resistive loads, including moderate overloads	500V	A	200	250	315	400	630
	AC22A	690V	A	200	250	315	400	630
	Mixed resistive and inductive loads, including moderate overloads	415V	A	200	250	315	400	630
	AC23A	500V	A	200	250	315	400	630
	Switching of motor loads or other highly inductive loads (3 phases/3 poles)	690V	A	200	250	315	400	630
Rated short time withstand current Icw (1s)		kA	6	6	12,5	12,5	20	20
Conditional short circuit current (Icc)		415V	kA	100	100	80	80	50
		500V	kA	100	100	80	80	50
Associated fuse for conditional short circuit current - Type gG		690V	kA	100	100	80	80	50
Associated fuse for conditional short circuit current - Type gG		A	200	250	315	400	630	800
WIRING								
Tightening torque		Nm	22		37		75	
Max. flexible wire		mm²	70 ÷ 185		1 x 185 ÷ 2 x 185		2 x 185	
Max. rigid wire		mm²	70 ÷ 185		1 x 185 ÷ 2 x 185		2 x 240	

NOTE: For versions from 200 to 800A in applications with voltages ≥ 500V, phase barriers are required. The 1000A version is supplied with phase separators, which are necessary for use with voltages of 415V or higher.

WIRING DIAGRAM



Auxiliary Contacts 16 A ÷ 160 A

TECHNICAL DATA	
Type: Auxiliary Contacts NO or NC	Thermal current in Air (Ith): 16 A
Rated insulation voltage (Ui): 400 V	Thermal current in enclosure (Ithe): 10A
Conditional short circuit current (Icc - 400 V): 1 kA	Rated impulse withstand voltage (Uimp): 4 kV
Associated fuse size for conditional short circuit current - Type gG: 6A	Category of use AC15: 6A (240V)
Tightening torque: 0,8 Nm	3A (400V)

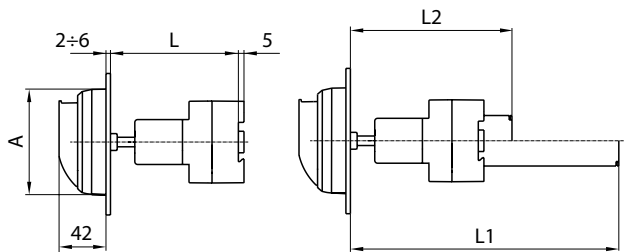
Auxiliary Contacts 200 A ÷ 1000 A

TECHNICAL DATA	
Type: Auxiliary Contacts EB or NC	Thermal current in Air (Ith): 16 A
Rated insulation voltage (Ui): 690 V	Rated impulse withstand voltage (Uimp): 6 kV
Conditional short circuit current (Icc - 690 V): 1 kA	Category of use AC15: 6A (240V)
Associated fuse size for conditional short circuit current - Type gG: 10A	3A (400V)

70 RT HP version for boards/DIN rail

Dimension tables

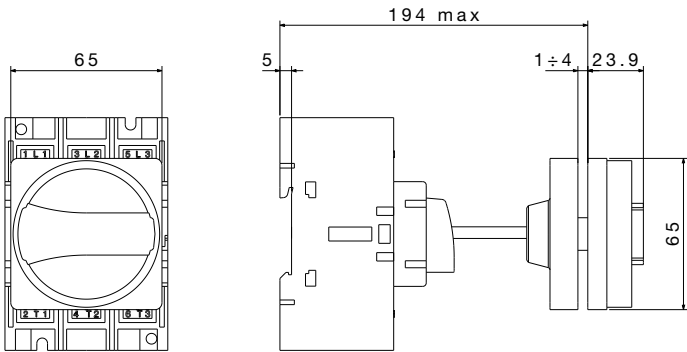
Rotary isolator switches for board: panel/door mounting 16 A ÷ 80 A



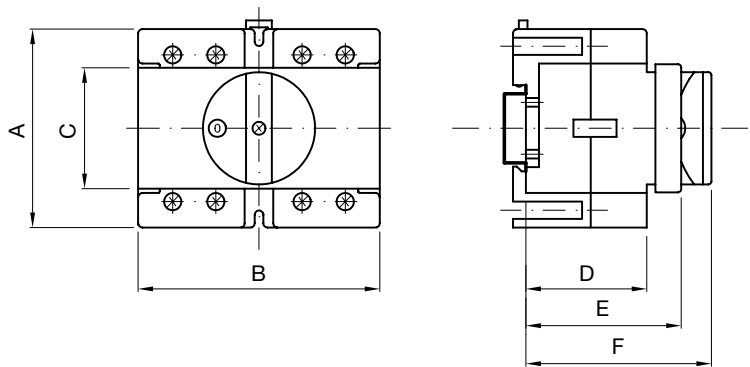
Isolator	WITHOUT BRACKETS		WITH BRACKETS		A
	Supplied with L	Adjustable up to L*	L1 max length obt.	L2 min length obt.**	
16A - 25A - 32A - 40A	145	87	(145+160) 305	(87+30) 117	ø 94
63A - 80A	177	114	(117+160) 337	(114+30) 144	ø 94

(*) Position obtainable by cutting the shaft supplied.
(**) Position obtainable by cutting both the shaft supplied, and the brackets, in the points shown.

Rotary isolator switches for board: panel/door mounting 100 A ÷ 160 A



Rotary isolator switches for board: DIN rail mounting EN 50022 16 A ÷ 63 A

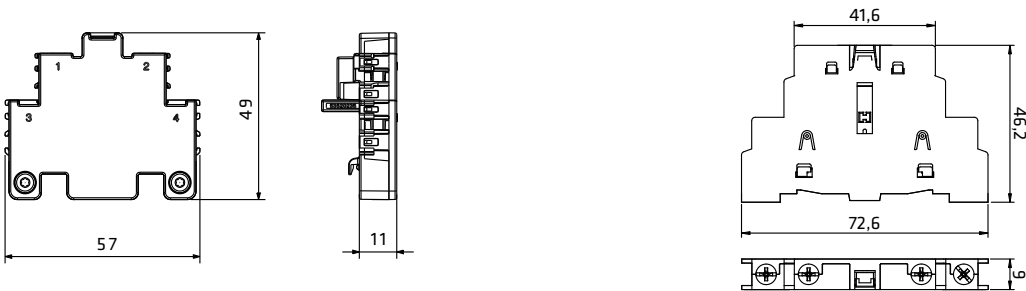


Type	A	B	C	D	E	F
16 - 32A	55	71 ●	45	37	53	68
63 A	73	89 ▲	45	44	56	68

● Occupies 4 modules (17,5 mm). ▲ Occupies 5 modules (17,5 mm).

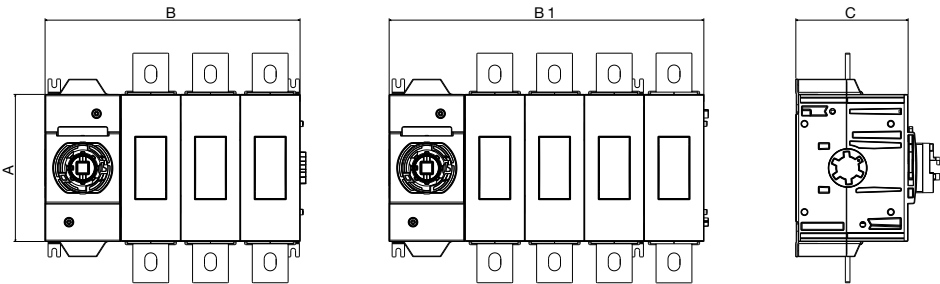
Dimension tables

Auxiliary Contacts 16 A ÷ 160 A



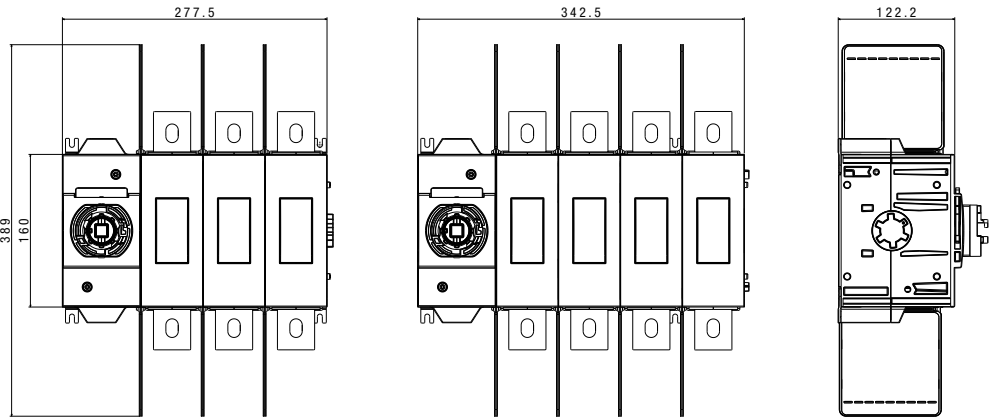
For isolator 16 - 25 - 32 - 40 - 63 - 80A
For isolator 100 - 125 - 160A and 16-100A 6P and 8P

Rotary isolator switches for board: panel/door mounting 200 A - 800 A



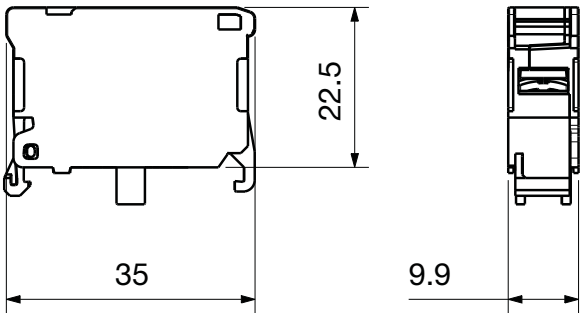
Isolator	A	B	B1	C
200 A - 250 A	105	157	192	76.3
315 A - 400 A	120	197	242	85.4
630 A - 800 A	160	277.5	342.5	122.2

Rotary isolator switches for board: panel/door mounting 1000 A

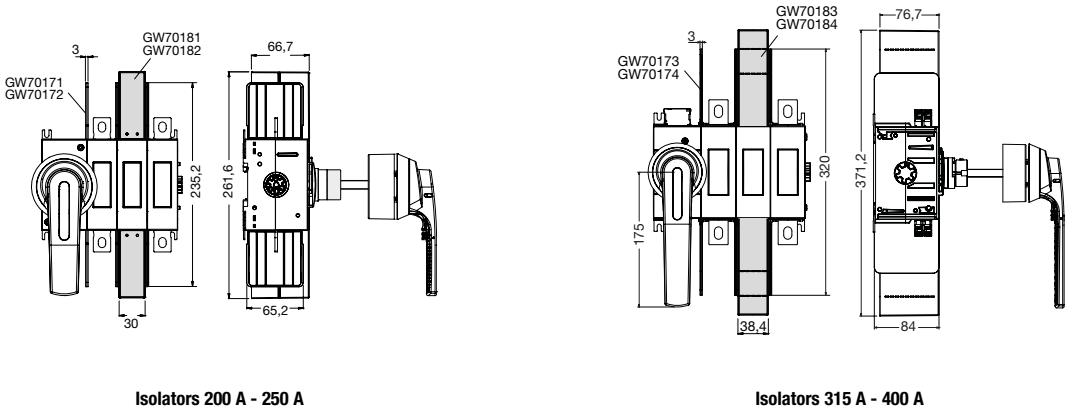


Dimension tables

Auxiliary Contacts 200 A ÷ 400 A

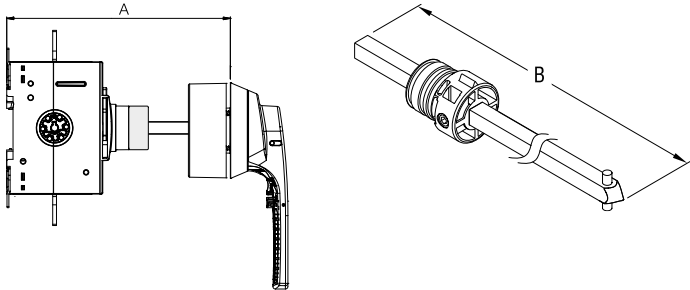


Phase barriers and terminal covers 200 A ÷ 400 A



Shafts for panel/door mounting knob A 200 A ÷ 400 A

Isolator	A	B
200A - 250A	124 ÷ 244	200
	124 ÷ 344	300
315A - 400A	157 ÷ 277	200
	157 ÷ 377	300
630A - 1000A	212 ÷ 282	200
	212 ÷ 282	300



Complementary items

COMPLEMENTARY ITEMS



GW 70 026

Auxiliary contacts			
Code	Type of contact	For isolator	Pack Carton
GW 70 026	1 NO + 1 NC	16 A - 25 A - 32 A - 40 A - 63 A - 80 A	1/12
GW 70 027	2 NO	16 A - 25 A - 32 A - 40 A - 63 A - 80 A	1/12
GW 70 028	2 NC	16 A - 25 A - 32 A - 40 A - 63 A - 80 A	1/12
GW 70 029	1 NO + 1 NC	100 A - 125 A - 160 A e 16-100A 6P and 8P	1/12
GW 70 035	1 NC	200 ÷ 1000 A	1/12
GW 70 036	1 EB	200 ÷ 1000 A	1/12



GW 70 040

Shafts for board versions			
Code	Length	For isolator	Pack Carton
GW 70 040	300 mm	200 ÷ 400 A	1/20
GW 70 041	300 mm	630 ÷ 1000 A	1/20



GW 70 171

Phase barriers			
Code	Kit	For isolator	Pack Carton
GW 70 171	6 pieces	200 ÷ 250 A 3P	1/20
GW 70 172	8 pieces	200 ÷ 250 A 4P	1/20
GW 70 173	6 pieces	315 ÷ 400 A 3P	1/20
GW 70 174	8 pieces	315 ÷ 400 A 4P	1/20
GW 70 175	6 pieces	630 A ÷ 1000 A 3P	1/20
GW 70 176	8 pieces	630 A ÷ 1000 A 4P	1/15



GW 70 181

Terminal covers			
Code	Kit	For isolator	Pack Carton
GW 70 181	3 pieces	200 ÷ 250 A 3P	1/20
GW 70 182	4 pieces	200 ÷ 250 A 4P	1/15
GW 70 183	3 pieces	315 ÷ 400 A 3P	1/10
GW 70 184	4 pieces	315 ÷ 400 A 4P	1/10
GW 70 185	3 pieces	630 A ÷ 1000 A 3P	1/8
GW 70 186	4 pieces	630 A ÷ 1000 A 4P	1/6



GW 44 622

Insulating screw caps			
Code	Description	Modules	Pack Carton
GW 44 622	Screwcap Ø16mm	-	10/100
GW 44 623	Screwcap Ø25mm	-	10/100

NOTE: required to maintain the double insulation and the IP protection degree when drilling the internal fixing points to install the versions in the insulating box.



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