

SWITCH DISCONNECTORS AND CHANGEOVER SWITCHES GL SERIES



 **Lovato**
electric

ENERGY AND AUTOMATION

...SAFE, RELIABLE AND COMPACT



MOTORISED AND MANUAL **CHANGEOVER** SWITCHES

- > **Compact** dimensions
- > **Three-pole** and **four-pole** versions already assembled
- > Manual changeover switches from **160A** to **1600A** AC31B
- > Motorised changeover switches from **125A** to **630A** AC31B
- > **UL1008** listed versions
- > Manual changeover switches **100**, **200** and **400A**
- > Motorised changeover switches **100** and **200A**

**VERSIONS
LISTED**
UL1008
for USA and Canada



 **Lovato**
electric
ENERGY AND AUTOMATION



MADE IN ITALY

FROM 100A TO 2000A



VERSIONS
LISTED

UL98
for USA and Canada



SWITCH DISCONNECTORS

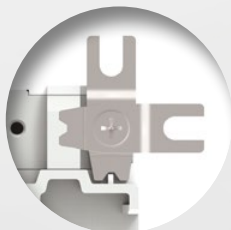
- > **Compact** dimensions
- > Four-pole version with the optional **fourth-pole add-on** up to 1000A
- > From **160A** to **2000A** AC21A
- > UL98 versions from **100A** to **1600A**



WIDE RANGE OF ACCESSORIES

A wide choice of auxiliary contacts, terminal covers, phase barriers, terminal clamps, bridging bars, shafts and handles are available to satisfy every installation need.

THE PERFECT SOLUTION



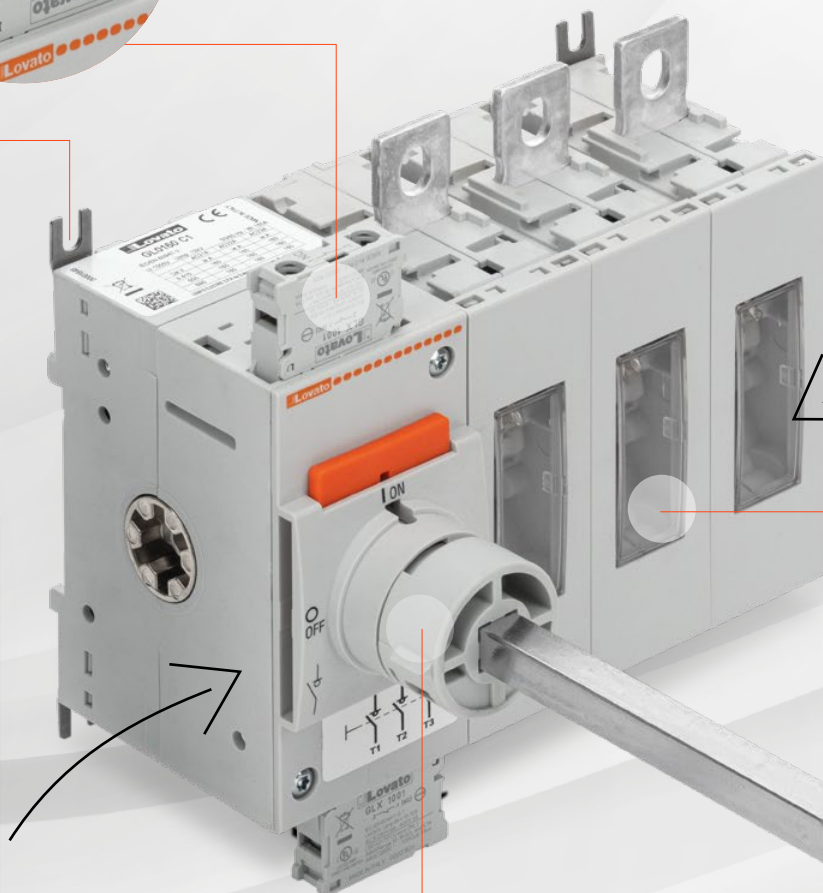
FLEXIBILITY

Switch disconnectors can be installed in all directions. The clips for screw fixing can be adjusted both in rotation and position (flexible fixing interaxis).



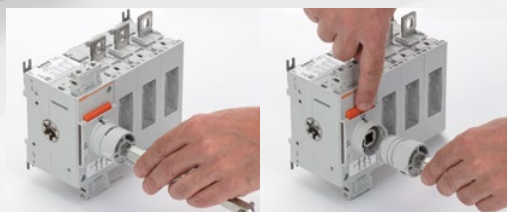
SNAP-ON AUXILIARY CONTACTS

Suitable for all the switch disconnectors and changeover switches, the snap-on contacts are mounted on the main switching actuator (max 8 contacts for switch disconnectors; max 4 contacts for changeover switches).



HIGH IEC ELECTRICAL CAPABILITY

Rated currents in AC23 up to 2000A-415V and up to 1600A-690V.



Snap-on shaft mounting and dismounting

SNAP-ON SHAFT MOUNTING

Shafts can be mounted and released with a simple snap action on the front of the switch. This feature allows fast installation and easy accessibility to the panel in case of maintenance.



MANUAL CHANGEOVER SWITCHES FROM 160A TO 1600A



- Three-pole and four-pole versions
- IEC versions up to 1600A
- UL1008 versions up to 400A for US and Canada
- Compact dimensions
- Easy to install with screw fixing.



MOTORISED CHANGEOVER SWITCHES FROM 125A TO 630A



- Three-pole and four-pole versions
- IEC versions up to 630A
- UL1008 versions up to 200A
- Motor supply voltage variants: 24VDC, 110...125VAC/DC, 208...277VAC
- Control via digital inputs or via optional RS485 port
- Ideal for use with ATL series automatic transfer switch controllers or RGK series engine and generator controllers.





CAPTIVE NUTS

Accessory that allows even easier wiring of the terminals using a single key.



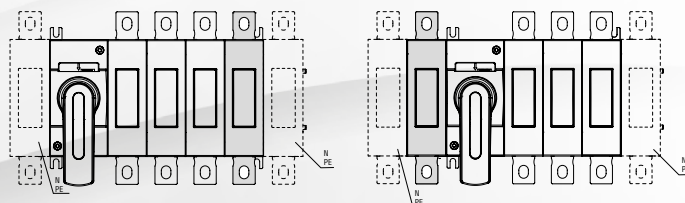
ANTI-SLIDE INSERT

For sizes from 160A to 315A there are two rubber pad inserts to prevent the sliding of switch disconnectors on the DIN rail.



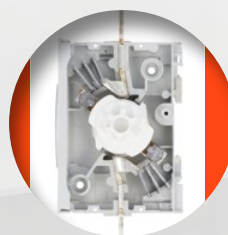
MODULARITY OF COMPONENTS

It is possible to optimize the management of the various product configurations thanks to the modularity of the components: fourth pole, earth and neutral terminals can be mounted by the installer in the desired position.



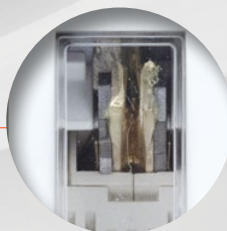
HIGH BREAKING POWER

The high speed switching mechanism features a rotating contact with double breaking on each pole delivering high breaking power.



VISIBLE CONTACTS: MAXIMUM SAFETY

Thanks to the transparent window on the individual power poles the open or closed switch status is clearly visible at a distance.



HANDLES

Switch disconnectors and changeover switches are standard supplied without any handles. Several handles are available to configure disconnectors with either direct operation or door coupling. The handles can be mounted and removed very easily thanks to the snap-on assembly.

> IP66, IP69K and NEMA 4X

A wide range of screw fixing pistol grip handles are available with the maximum degree of protection on the market.

> UL508A

In compliance with UL508A standards, which require internal panel inspection by authorized personnel with power applied, pistol handles are available with defeatable feature of the door coupling when the switch disconnector or the changeover switch is closed, i.e. in ON position.



> Padlockable

All direct and door coupling handles are equipped with integrated padlock mechanism.



FROM 160A TO 315A ALSO IN METAL ENCLOSURES



The metal enclosures are made of painted sheet steel with a padlockable handle. The door is secured by two screws and hinged on the right side of the enclosure. The high degree of protection IP65 allows the use of these enclosures in the most demanding applications.

SELECTION GUIDE

IEC/EN/BS



Type		IEC conventional free air thermal current Ith	IEC rated operational Ie		Fourth pole	Neutral terminal	Earth/ground terminal	Direct operating handle		
		AC21A (≤690V)	AC23A (≤400V)	AC23A (≤500V)				Black	Yellow/red	
Three-pole	Four-pole	[A]	[A]	[A]	Order code	Order code	Order code	Order code	Order code	
Switch disconnectors IEC/EN/BS.										
GL0160C1	❶	160	160	160	GLX420315	GLX300	GLX301	GLX61DB	GLX61D	
GL0200C1	❶	200	200	200						
GL0250C1	❶	250	250	250						
GL0315C1	❶	315	315	250						
GL0320C1	❶	320	320	320	GLX420320	GLX302	GLX303	GLX62DB	GLX62D	
GL0400C1	❶	400	400	400	GLX420400					
GL0500C1	❶	500	500	500	GLX420500					
GL0630C1	❶	630	630	500	GLX420630					
GL0631C1	❶	630	630	630	GLX420631	GLX304	GLX305	GLX63DB	GLX63D	
GL0800C1	❶	800	800	800	GLX420800					
GL1000C1	❶	1000	1000	800	GLX421000	GLX306	GLX307			
GL1001C1	GL1001T4C1	1000	1000	1000	GLX421001Ⓣ	GLX308		GLX64DB	GLX64D	
GL1250C1	GL1250T4C1	1250	1250	1250	GLX421250Ⓣ					
GL1600C1	GL1600T4C1	1600	1600	1600	GLX421600Ⓣ					
GL2000C1	GL2000T4C1	2000	1600	1600	GLX422000Ⓣ					

❶ The four-pole versions are achieved by combining a three-pole switch disconnector GL...C1 type with fourth pole GXL42... type.

Ⓣ Alternatively to the already assembled four-pole version GL...T4C1 type, it is possible to create a four-pole switch disconnector by combining a three-pole switch disconnector GL...C1 type with a fourth pole GXL42... type.

Manual changeover switches IEC/EN/BS.

GLC0160C1	GLC0160T4C1	160	160	160	–	–	–	GLX61DB	–	
GLC0200C1	GLC0200T4C1	200	200	200						
GLC0250C1	GLC0250T4C1	250	250	250						
GLC0315C1	GLC0315T4C1	315	250	315						
GLC0320C1	GLC0320T4C1	320	320	320				GLX62DB		
GLC0400C1	GLC0400T4C1	400	400	400						
GLC0500C1	GLC0500T4C1	500	500	500						
GLC0630C1	GLC0630T4C1	630	630	500						
GLC0631C1	GLC0631T4C1	630	630	630	–	–	–	GLX63DB	–	
GLC0800C1	GLC0800T4C1	800	800	800						
GLC1000C1	GLC1000T4C1	1000	1000	800						
GLC1001C1	GLC1001T4C1	1000	1000	1000	–	–	–	GLX64DB	–	
GLC1250C1	GLC1250T4C1	1250	1250	1250						
GLC1600C1	GLC1600T4C1	1600	1600	1600						

cULus



Type		General purpose current	Max 3-phase horsepower rating	Fourth pole	Neutral terminal	Earth/ground terminal	Direct operating handle		
		[A]	[HP/V]				Black	Yellow/red	
Three-pole	Four-pole	[A]	[HP/V]	Order code	Order code	Order code	Order code	Order code	
UL98 switch disconnectors.									
GL0100C1UL	❷	100	30/240 - 75/480 - 100/600	GLX420100UL	GLX300	GLX301	GLX61DB	GLX61D	
GL0200C1UL	❷	200	75/240 - 150/480 - 200/600	GLX420200UL					
GL0400C1UL	❷	400	125/240 - 250/480 - 350/600	GLX420400UL	GLX302	GLX303	GLX62DB	GLX62D	
GL0600C1UL	❷	600	200/240 - 450/480 - 500/600	GLX420600UL	GLX304	GLX305	GLX63DB	GLX63D	
GL0800C1UL	❷	800	250/240 - 500/480 - 500/600	GLX420800UL	GLX306	GLX307			
GL0801C1UL	GL0801T4C1UL	800	250/240 - 500/480 - 500/600	GLX420801ULⓉ	GLX308		GLX64DB	GLX64D	
GL1200C1UL	GL1200T4C1UL	1200	250/240 - 500/480 - 500/600	GLX421200ULⓉ					
GL1600C1UL	GL1600T4C1UL	1600	250/240 - 500/480 - 500/600	GLX421600ULⓉ					

❷ The four-pole versions are achieved by combining a three-pole switch disconnector GL...C1UL type with a fourth pole GXL42...UL type.

Ⓣ Alternatively to the pre-assembled four-pole version GL...T4C1UL, a four-pole switch disconnector can be obtained by combining a three-pole switch disconnector GL...C1UL type with a fourth pole GXL42...UL type.

UL1008 manual changeover switches.

GLC0100C1UL	GLC0100T4C1UL	100	30/240 - 75/480 - 100/600	–	–	–	GLX61DB	–	
GLC0200C1UL	GLC0200T4C1UL	200	75/240 - 150/480 - 200/600						
GLC0400C1UL	GLC0200T4C1UL	400	125/240 - 250/480 - 350/600				GLX62DB		

For information on motorised changeover switches



Door coupling handle		Shaft extensions for door coupling handles					Shaft alignment ring	Auxiliary contacts	Terminal covers	Phase barriers	Terminal clamps	Bridging bars	Captive nuts
Black	Yellow/red		Panel depth		Section	Length							
Order code	Order code	Order code	min [mm]	max [mm]	□ [mm]	[mm]	Order code	Order code	Order code	Order code	Order code	Order code	Order code
GLX61B	GLX61	GLX7150S10 GLX7200S10 GLX7300S10 GLX7400S10 GLX7500S10	124	196 246 346 446 546	10	150 200 300 400 500	GLX00	GLX1001 (1NC) GLX1010EA (1NA early break)	GLX800 (3 pcs) GLX801 (4 pcs)	GLX900 (6 pcs) GLX901 (8 pcs)	GLX500 (1 pcs) GLX501 (3 pcs)	–	GLX550 (8 pcs)
GLX62B	GLX62	GLX7150S10 GLX7200S10 GLX7300S10 GLX7400S10 GLX7500S10	133	206 256 356 456 556		150 200 300 400 500			GLX802 (3 pcs) GLX803 (4 pcs)	GLX902 (6 pcs) GLX903 (8 pcs)	GLX502 (1 pcs) GLX503 (3 pcs) GLX504 (1 pcs) GLX505 (3 pcs)		GLX551 (8 pcs)
GLX63B	GLX63	GLX7150S12 GLX7200S12 GLX7300S12 GLX7400S12 GLX7500S12	184	232 282 382 482 582	12	150 200 300 400 500			GLX804 (3 pcs) GLX805 (4 pcs)	GLX904 (6 pcs) GLX905 (8 pcs)	GLX506 (1 pcs) GLX507 (3 pcs)	–	GLX552 (8 pcs)
GLX64B GLX64B2H (two-hand operation)	GLX64 GLX642H (two-hand operation)	GLX7150D12 GLX7200D12 GLX7300D12 GLX7400D12 GLX7500D12	252	262 312 412 512 612	12	150 200 300 400 500			GLX806 (3 pcs) GLX807 (4 pcs)	GLX906 (6 pcs) GLX907 (8 pcs)	GLX510 (1 pcs) GLX511 (3 pcs)	–	GLX553 (8 pcs)

GLX61 type with a fourth pole GLX42... type.

GLX61CB	–	GLX7150S10 GLX7200S10 GLX7300S10 GLX7400S10 GLX7500S10	217	290 340 440 540 640	10	150 200 300 400 500	GLX00	GLX1001 (1NC) GLX1010EA (1NA early break)	GLX800 (3 pcs) GLX801 (4 pcs)	GLX900 (6 pcs) GLX901 (8 pcs)	GLX500 (1 pcs) GLX501 (3 pcs)	GLX201 (3 pcs) GLX202 (4 pcs)	GLX550 (8 pcs)
GLX62CB		GLX7150S10 GLX7200S10 GLX7300S10 GLX7400S10 GLX7500S10	244	317 367 467 567 667		150 200 300 400 500			GLX802 (3 pcs) GLX803 (4 pcs)	GLX902 (6 pcs) GLX903 (8 pcs)	GLX502 (1 pcs) GLX503 (3 pcs) GLX504 (1 pcs) GLX505 (3 pcs)	GLX206 (3 pcs) GLX207 (4 pcs)	GLX551 (8 pcs)
GLX63CB	–	GLX7150S12 GLX7200S12 GLX7300S12 GLX7400S12 GLX7500S12	349	397 447 547 647 747	12	150 200 300 400 500			GLX804 (3 pcs) GLX805 (4 pcs)	GLX904 (6 pcs) GLX905 (8 pcs)	GLX506 (1 pcs) GLX507 (3 pcs)	GLX208 (3 pcs) GLX209 (4 pcs)	GLX552 (8 pcs)
GLX64CB GLX64CB2H (two-hand operation)		GLX7150D12 GLX7200D12 GLX7300D12 GLX7400D12 GLX7500D12	306	366 416 516 616 716	12	150 200 300 400 500			GLX806 (3 pcs) GLX807 (4 pcs)	GLX906 (6 pcs) GLX907 (8 pcs)	GLX510 (1 pcs) GLX511 (3 pcs)	GLX212 (3 pcs) GLX213 (4 pcs)	GLX553 (8 pcs)

Door coupling handle		Shaft extensions for door coupling handles					Shaft alignment ring	Auxiliary contacts	Terminal covers	Phase barriers	Terminal clamps	Bridging bars	Captive nuts
Black	Yellow/red		Panel depth		Section	Length							
Order code	Order code	Order code	min [mm]	max [mm]	□ [mm]	[mm]	Order code	Order code	Order code	Order code	Order code	Order code	Order code
GLX61B	GLX61	GLX7150S10 GLX7200S10 GLX7300S10 GLX7400S10 GLX7500S10	124	196 246 346 446 546	10	150 200 300 400 500	GLX00	GLX1001 (1NC) GLX1010EA (1NA early break)	GLX800 (3 pcs) GLX801 (4 pcs)	Built-in	GLX500 (1 pcs) GLX501 (3 pcs)	–	GLX550 (8 pcs)
GLX62B	GLX62	GLX7150S10 GLX7200S10 GLX7300S10 GLX7400S10 GLX7500S10	133	206 256 356 456 556		150 200 300 400 500			GLX802 (3 pcs) GLX803 (4 pcs)	Built-in	GLX502 (1 pcs) GLX503 (3 pcs) GLX504 (1 pcs) GLX505 (3 pcs)		GLX551 (8 pcs)
GLX63B	GLX63	GLX7150S12 GLX7200S12 GLX7300S12 GLX7400S12 GLX7500S12	184	232 282 382 482 582	12	150 200 300 400 500			GLX804 (3 pcs) GLX805 (4 pcs)	GLX904 (6 pcs) GLX905 (8 pcs)	GLX506 (1 pcs) GLX507 (3 pcs)	–	GLX552 (8 pcs)
GLX64B GLX64B2H (two-hand operation)	GLX64 GLX642H (two-hand operation)	GLX7150D12 GLX7200D12 GLX7300D12 GLX7400D12 GLX7500D12	252	262 312 412 512 612	12	150 200 300 400 500			GLX806 (3 pcs) GLX807 (4 pcs)	GLX908 (6 pcs) GLX909 (8 pcs)	GLX510 (1 pcs) GLX511 (3 pcs)	–	GLX553 (8 pcs)

GLX61 type with a fourth pole GLX42...UL type.

GLX61CB	–	GLX7150S10 GLX7200S10 GLX7300S10 GLX7400S10 GLX7500S10	220	290 340 440 540 640	10		GLX00	GLX1001 (1NC) GLX1010EA (1NA early break)	GLX800 (3 pcs) GLX801 (4 pcs)	Built-in	GLX500 (1 pcs) GLX501 (3 pcs)	GLX201 (3 pcs) GLX202 (4 pcs)	GLX550 (8 pcs)
GLX62CB		GLX7150S10 GLX7200S10 GLX7300S10 GLX7400S10 GLX7500S10	267	337 387 487 587 687					GLX802 (3 pcs) GLX803 (4 pcs)	Built-in	GLX502 (1 pcs) GLX503 (3 pcs) GLX504 (1 pcs) GLX505 (3 pcs)	GLX206 (3 pcs) GLX207 (4 pcs)	GLX551 (8 pcs)

For more information on GLCM switches, visit www.LovatoElectric.com

SWITCH DISCONNECTORS AND CHANGEOVER SWITCHES GL SERIES



ENERGY AND AUTOMATION

LOVATO ELECTRIC S.P.A.

via Don E. Mazza, 12
24020 Gorle (Bergamo), ITALY
tel +39 035 4282111

www.LovatoElectric.com



The products described in this publication are subject to be revised or improved at any moment. Catalogue descriptions and details, such as technical and operational data, drawings, diagrams and instructions, etc., do not have any contractual value. In addition, products should be installed and used by qualified personnel and in compliance with the regulations in force for electrical systems in order to avoid damages and safety hazards.