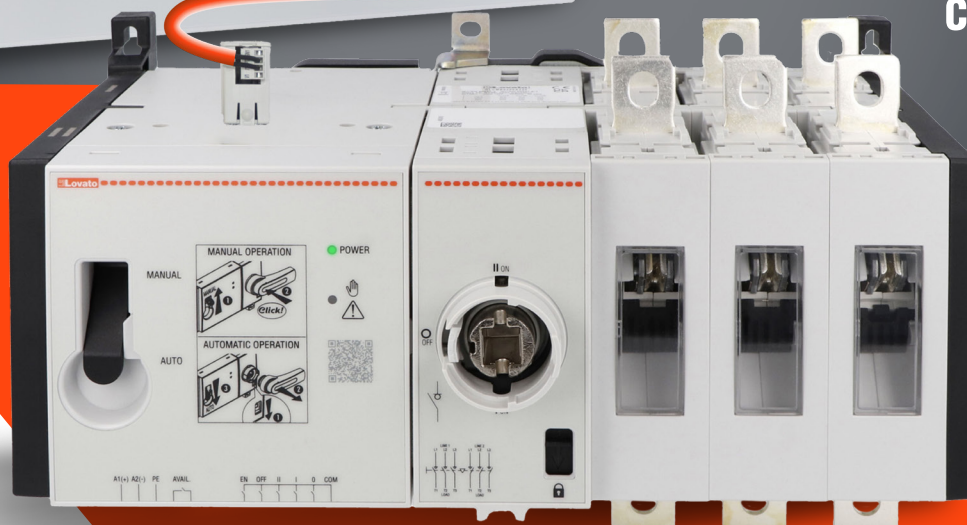


MOTORISED CHANGEOVER SWITCHES TYPE GLCM



 **Lovato**
electric

ENERGY AND AUTOMATION

FROM 100A TO 630A

FAST WIRING AND REAL-TIME MONITORING



**UL1008
CERTIFIED
VERSIONS
UP TO 200A**
for USA and Canada



MOTORISED CHANGEOVER SWITCHES

- ✓ **Three-pole and four-pole versions**
- ✓ **IEC versions from 125 to 630A**
- ✓ **UL1008 versions from 100A to 200A**
- ✓ **3 motor supply voltage variants:**
24VDC, 110...125VAC/DC, 230VAC.



*The safe choice
to guarantee
electrical continuity
without compromise.*

INNOVATIVE RS485 CONNECTION TO THE CONTROLLER

The GLCM motorised changeover switches are ideal for pairing with **ATL series automatic transfer switch controllers** and **RGK series genset controllers** by LOVATO Electric.

The innovative optional **RS485** control (Modbus-RTU) offers a modern and efficient alternative to traditional control via digital inputs, with **complete and real-time monitoring** of the motorised changeover switch status with dedicated display pages on the controller.

- ✓ **Simplified wiring:** saves wiring on the controller for the 3 command outputs (I,O,II), feedback inputs, and motorized changeover switch status output
- ✓ **Reduced installation times**
- ✓ **No wiring errors**
- ✓ **Complete monitoring and diagnostics** (status, operating mode, inputs, alarms, ...)
- ✓ **Real-time anomaly detection** (e.g. cut cable or active alarms).



Gensets



Data centers



Fire protection systems



Hospitals



Public transport



Shopping centers

EXPANDABILITY

Slot for connecting an additional expansion module, to be chosen from:

- EXP1012: isolated RS485 Modbus-RTU port
- EXP1003: 2 programmable 5A C/O relay outputs
- EXP1006: 2 programmable 5A NO relay outputs



MOTOR GROUP

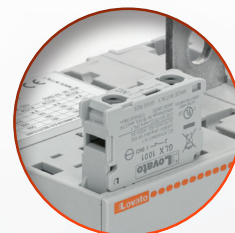
Possibility to replace the motor group available as a spare part easily and quickly.

ROBUST MOUNTING

4 mounting holes on plastic support at the corners + 2 central metal mounting brackets to reinforce the support.

AUXILIARY CONTACTS WITH SNAP-IN MOUNTING

up to 4 contacts for each position (2 above and 2 below, max 8 total).



HANDLE HOLDER

for supporting the direct control handle when not in use, supplied as standard. Attachment on the side of the switch or separate mounting on DIN rail.



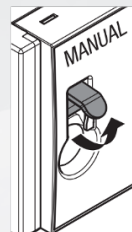
OPTICAL PORT

for configuration and monitoring via Xpress software or firmware update with CX01 USB device.



LEVER FOR OPERATING MODE SELECTION

with clear identification of the selected mode, automatic or manual, and integrated mechanical lever that prevents handle insertion when automatic mode is active.



DIAGNOSTIC LEDS

- Green LED for indicating power presence or ongoing communication
- Yellow/red bi-color LED for indicating active manual mode, presence of padlock on locking slide, and alarm with flashing code for quick identification.



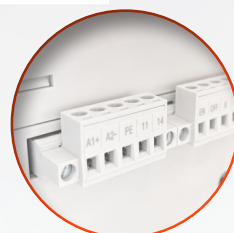
QR CODE

for downloading the technical manual.



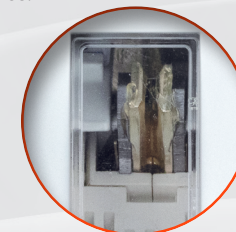
TERMINAL BLOCKS

for auxiliary power supply, control inputs, and status output. The terminal blocks are removable and screwable to ensure connection stability.



VISIBILITY OF CONTACTS

Thanks to the transparent window on the individual power poles, the open or closed state of the switch is clearly visible from a distance.



LOCKING LATCH

for releasing the handle and disabling the electrical control. Possibility to lock the changeover switch in every position (I, 0, II).



HIGH PERFORMANCE

- Rated operating voltage up to 690VAC
- Operating temperature up to 55°C without derating
- Up to 20.000 mechanical operations.

COMPACT DIMENSIONS

- Up to 315A with width 294mm for three-pole version, 329mm for four-pole version
- Sizes from 320A to 630A with width 327mm for three-pole version, 372mm for four-pole version.

WIDE OPERATING RANGE

The motor supply voltage, available in three variants, has a **very wide operating range**, which ensures high robustness to voltage fluctuations:

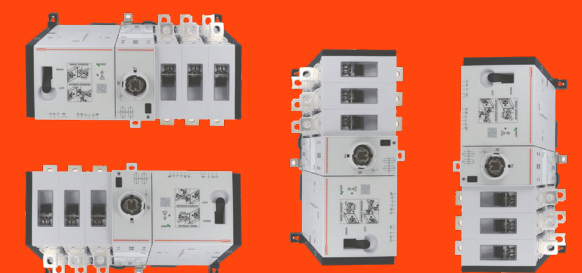
- GLCM...D024: 19.2...31.2VDC
- GLCM...E110: 77...165VAC/DC
- GLCM...A230: 166...332VAC.

OPERATIONAL VERSATILITY

- GLCM can be controlled via the traditional command through **digital inputs** or via **RS485** with optional communication port.
- In case of control via digital inputs, it is possible to enable **pulse control logic** (the switch performs switching upon receiving a pulse on the control input) or **maintained contactor logic** (if released, the switch returns to position 0).

INSTALLATION FLEXIBILITY

GLCM can be **installed in any position** (vertical or horizontal), making it suitable for any type of installation.



cULus CERTIFIED VERSIONS

cULus certified versions available according to UL1008 standard with general operating current up to 200A, suitable for the North American market.





MOTORISED CHANGEOVER SWITCHES TYPE GLCM



ENERGY AND AUTOMATION

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The products described in this document are subject to changes and updates at any time. The descriptions, technical and functional data, drawings, and technical instructions in the leaflet are to be considered as indicative only, and therefore have no contractual value. It is also reminded that the products themselves must be used by qualified personnel and always in compliance with current installation regulations, in order to avoid damage to people and property.