

## Hager HIC425G

# Hager HIC425G 4-Pole 250A Motorized Switch with Relay User Manual

Model: HIC425G

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of the Hager HIC425G 4-Pole 250A Motorized Switch with Relay. Please read this manual thoroughly before attempting any installation or operation to ensure proper use and to prevent potential hazards. Keep this manual in a safe place for future reference.

## 2. SAFETY INFORMATION

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**WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.**

- Always disconnect power before installing, servicing, or removing the device.
- Ensure all local and national electrical codes are followed during installation.
- Do not operate the switch if it appears damaged.
- Wear appropriate personal protective equipment (PPE) when working with electrical systems.
- The device must be properly grounded.

## 3. PRODUCT DESCRIPTION AND FEATURES

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The Hager HIC425G is a robust 4-pole motorized switch designed for automatic switching applications up to 250 Amperes. It integrates a relay for enhanced control capabilities, making it suitable for various industrial and commercial electrical systems. Its durable plastic construction and IP65 rating ensure protection against dust and water ingress, allowing for reliable operation in challenging environments.



**Figure 1:** Hager HIC425G 4-Pole 250A Motorized Switch with Relay. This image shows the compact design and robust casing of the motorized switch, highlighting its primary components and connection points.

### Key Features:

- **4-Pole Configuration:** Suitable for three-phase systems with neutral.
- **250A Current Rating:** Handles high current loads.
- **Motorized Operation:** Enables automatic and remote switching.
- **Integrated Relay:** Provides additional control and protection functionalities.
- **IP65 Protection:** Dust-tight and protected against water jets.
- **ON-OFF Operating Mode:** Simple and clear switching states.
- **Clamp Connector Type:** Secure and reliable electrical connections.
- **Durable Plastic Material:** Ensures longevity and resistance to environmental factors.

## 4. SETUP AND INSTALLATION

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Installation of the Hager HIC425G motorized switch must be carried out by a certified electrician in accordance with all applicable electrical standards and regulations.

### Installation Steps:

1. **Power Disconnection:** Ensure that the main power supply to the installation area is completely disconnected and locked out before beginning any work.
2. **Mounting:** Securely mount the HIC425G switch in a suitable enclosure or panel, ensuring adequate ventilation and clearance for wiring.
3. **Wiring:** Connect the main power lines to the input terminals and the load lines to the output terminals using appropriate gauge wiring for 250A. Ensure all clamp connections are tight and secure. Connect the control wiring for the motorized function and relay as per the wiring diagram provided with the product (not included in this general manual).
4. **Grounding:** Connect the device to a proper earth ground.
5. **Verification:** Double-check all connections for correctness and tightness. Ensure no loose wires or foreign objects are present.

6. **Power Restoration:** Once installation is complete and verified, restore power to the system.

## 5. OPERATING INSTRUCTIONS

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The Hager HIC425G motorized switch operates in an ON-OFF mode, typically controlled by an external control system or manual override.

### Basic Operation:

- **ON State:** When the control signal activates the motorized mechanism to the ON position, power is supplied through the switch to the connected load.
- **OFF State:** When the control signal activates the motorized mechanism to the OFF position, power to the connected load is interrupted.
- **Relay Function:** The integrated relay can be configured for various control or signaling purposes, such as remote status indication or interlocking with other devices. Refer to the specific wiring diagram for relay configuration.

Always ensure that the control system is functioning correctly and that the switch responds as expected to ON and OFF commands.

## 6. MAINTENANCE

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Regular maintenance helps ensure the longevity and reliable operation of the Hager HIC425G motorized switch. All maintenance procedures should be performed by qualified personnel with the power disconnected.

### Maintenance Schedule:

- **Periodic Visual Inspection (Monthly/Quarterly):** Check for any signs of physical damage, overheating (discoloration), loose connections, or excessive dust accumulation.
- **Terminal Tightness Check (Annually):** With power disconnected, verify the tightness of all electrical connections to prevent arcing and overheating.
- **Cleaning (As needed):** Gently clean the exterior of the switch with a dry, lint-free cloth. Do not use solvents or abrasive cleaners. Ensure no dust or debris obstructs moving parts or ventilation.
- **Functional Test (Annually):** Perform an operational test to ensure the motorized mechanism switches smoothly between ON and OFF states and that the relay functions correctly.

## 7. TROUBLESHOOTING

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If you encounter issues with your Hager HIC425G motorized switch, refer to the following troubleshooting guide. For problems not listed here, contact a qualified electrician or Hager technical support.

Problem	Possible Cause	Solution
Switch does not operate (no ON/OFF action)	No power supply to the control circuit; Faulty control signal; Motorized mechanism fault.	Check control circuit power and fuses; Verify control signal integrity; Inspect motorized mechanism for obstructions (with power off).

Problem	Possible Cause	Solution
Switch operates but no power to load	Main power supply issue; Loose load connections; Internal contact fault.	Check main power supply; Verify load wiring connections; Contact qualified personnel for internal inspection.
Overheating or burning smell	Loose connections; Overload; Internal fault.	<b>Immediately disconnect power.</b> Check all connections for tightness; Verify load current does not exceed 250A; Contact qualified personnel.
Relay not functioning	Incorrect wiring; Faulty relay; No power to relay circuit.	Check relay wiring against diagram; Verify power to relay circuit; Replace switch if relay is faulty.

## 8. SPECIFICATIONS

The following table details the technical specifications for the Hager HIC425G 4-Pole 250A Motorized Switch with Relay.

Specification	Detail
Model	HIC425G
Brand	Hager
Product Type	Motorized Switch with Relay
Poles	4-pole
Current Rating	250 A
Operating Mode	ON-OFF
Connector Type	Clamp
Material	Plastic
International Protection Rating	IP65
Product Dimensions (L x W x H)	7.7 x 5.3 x 11.1 cm
Weight	1 kg

## 9. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Hager HIC425G motorized switch, please refer to the documentation provided at the time of purchase or visit the official Hager website. Hager provides support for its products through authorized distributors and service centers.

**Manufacturer:** Hager

For further assistance, please contact your local Hager representative or customer service.

