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Aigostar HNA5

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Model: HNA5

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Aigostar 2P 10A Thermal Magnetic Circuit Breaker. Please read these instructions carefully before use and retain them for future reference. This device is designed to protect electrical circuits from overcurrents, which can result from overload or short circuit.

2. SAFETY INFORMATION

WARNING: Electrical work should only be performed by qualified and licensed electricians. Improper installation or use can result in electric shock, fire, or serious injury.

- Always disconnect power at the main service panel before installing or servicing the circuit breaker.
- Ensure the circuit breaker's specifications (voltage, current, curve type) match your electrical system requirements.
- Do not operate the circuit breaker if it appears damaged.
- This product is certified CE & RoHS, ensuring compliance with European safety and environmental standards.
- Operating temperature range: -5°C to 40°C.

3. PRODUCT OVERVIEW

The Aigostar HNA5 is a 2-pole, 10A thermal magnetic circuit breaker designed for maximum safety in electrical installations by protecting cables and distribution systems. It can function as a main circuit switch and for circuit protection.



Figure 3.1: Front and side view of the Aigostar 2P 10A Thermal Magnetic Circuit Breaker.



Figure 3.2: Dimensions of the Aigostar 2P 10A Thermal Magnetic Circuit Breaker (81mm H x 35.5mm W x 74.5mm D).



Figure 3.3: Visual window indicating power status (Red for Power Ups, Green for Power Off).

4. SPECIFICATIONS

Feature	Specification
Brand	Aigostar
Model Number	HNA5
Type	Thermal Magnetic Circuit Breaker
Poles	2P
Rated Current	10A
Voltage	400 Volts
Power	400 Watts
Curve Type	C
Mounting Type	DIN Rail Mount
Dimensions (L x W x H)	74.5 mm x 35.5 mm x 81 mm
Weight	1.09 kilograms (packaged)
Certifications	CE, RoHS

5. SETUP AND INSTALLATION

Installation must be carried out by a qualified electrician in accordance with local electrical codes and regulations.

- Preparation:** Ensure the main power supply to the electrical panel is completely disconnected and verified with a voltage tester.
- Mounting:** The circuit breaker is designed for DIN rail mounting. Hook the top edge of the breaker onto the DIN rail and press down firmly until it clicks into place.
- Wiring:**
 - Connect the incoming live and neutral wires to the top terminals of the circuit breaker.
 - Connect the outgoing live and neutral wires to the bottom terminals, leading to the circuit being protected.
 - Ensure all connections are secure. The recommended tightening torque for terminals is 2.4 Nm.
- Verification:** Double-check all wiring connections for correctness and tightness.

5. **Restore Power:** Once installation is complete and verified, restore power to the main service panel.



Figure 5.1: Side view illustrating DIN rail mounting and terminal torque specifications (2.4 Nm).

6. OPERATING INSTRUCTIONS

1. **Switching ON:** To energize the circuit, push the toggle switch upwards to the 'I-ON' position. The visual window should display green.
2. **Switching OFF:** To de-energize the circuit, push the toggle switch downwards to the 'O-OFF' position. The visual window should display red.
3. **Automatic Tripping:** In the event of an overload or short circuit, the circuit breaker will automatically trip to the 'O-OFF' position, interrupting the power supply to the protected circuit. The visual window will show red.
4. **Resetting After Trip:** Before resetting a tripped breaker, identify and rectify the cause of the trip (e.g., remove overloaded devices, fix short circuits). Once the fault is cleared, push the toggle switch fully down to reset the internal mechanism, then push it upwards to the 'I-ON' position to restore power.

7. MAINTENANCE

The Aigostar circuit breaker is designed for reliable, maintenance-free operation under normal conditions. However, periodic inspection is recommended.

- **Visual Inspection:** Annually inspect the circuit breaker for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the circuit breaker with a dry, lint-free cloth. Do not use liquids or abrasive cleaners.
- **Testing:** While not typically required for residential or light commercial use, a qualified electrician may perform periodic operational tests if deemed necessary for specific applications.
- **Safety First:** Always ensure power is disconnected before performing any inspection or cleaning.

8. TROUBLESHOOTING

If you encounter issues with your circuit breaker, consider the following:

- **Breaker Trips Frequently:**
 - **Overload:** The circuit may be drawing too much current. Unplug some devices from the circuit and try resetting the breaker.
 - **Short Circuit:** A direct connection between live and neutral wires can cause a trip. Inspect wiring and appliances for damage.
 - **Ground Fault:** Though this is a thermal magnetic breaker, a severe fault could still cause a trip.
 - **Faulty Appliance:** A defective appliance connected to the circuit might be causing the trip.
- **Breaker Does Not Reset:**
 - Ensure the fault (overload or short circuit) has been cleared. The breaker will not reset if a fault persists.
 - If the breaker still won't reset after clearing the fault, it may be damaged and require replacement by a qualified electrician.
- **No Power to Circuit, Breaker ON:**
 - Check the main service panel for other tripped breakers or fuses.
 - Verify wiring connections to the circuit breaker are secure.
 - If all checks fail, consult a qualified electrician.

9. WARRANTY AND SUPPORT

Aigostar products are manufactured to high-quality standards. For information regarding warranty coverage or technical support, please refer to the documentation provided with your purchase or visit the official Aigostar website. Please have your model number (HNA5) and purchase details available when contacting support.

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