

Schelinger A51-SPD01-4P-B+C

SCHELINGER A51-SPD01-4P-B+C CCS Surge Protector User Manual

Model: A51-SPD01-4P-B+C

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your SCHELINGER A51-SPD01-4P-B+C CCS Surge Protector. Please read this manual thoroughly before use and retain it for future reference.

The SCHELINGER A51-SPD01-4P-B+C CCS Surge Protector is designed to protect electrical installations from transient overvoltages caused by lightning strikes or switching operations. It features a fast response time and high stability to ensure reliable protection for your electrical systems.

SAFETY INSTRUCTIONS

WARNING: Electrical installations should only be performed by qualified personnel. Failure to follow these instructions can result in electric shock, fire, or serious injury.

- Always disconnect power to the circuit before installing or servicing the surge protector.
- Ensure proper grounding according to local and national electrical codes.
- Do not operate the device if it appears damaged.
- Keep the device away from moisture and extreme temperatures.
- This device is designed for indoor use in dry environments unless otherwise specified.

PACKAGE CONTENTS

Verify that all components are present in the package:

- 1 x SCHELINGER A51-SPD01-4P-B+C CCS Surge Protector (4P 5kA class T1+T2 (B+C))
- 1 x User Manual (this document)

SETUP AND INSTALLATION

The SCHELINGER A51-SPD01-4P-B+C surge protector is designed for mounting on a standard 35 mm DIN rail within an electrical distribution board.

1. **Power Disconnection:** Before beginning installation, ensure that the main power supply to the electrical panel is completely disconnected and locked out to prevent accidental re-energization.
2. **Mounting:** Snap the surge protector onto the 35 mm DIN rail. Ensure it is securely fastened.
3. **Wiring:** Connect the surge protector according to the wiring diagram provided in your electrical panel documentation or by a qualified electrician. Ensure correct phase, neutral, and ground connections. The device is a 4-pole protector.
4. **Grounding:** Verify that the grounding connection is robust and compliant with all applicable electrical codes. Proper grounding is critical for effective surge protection.
5. **Inspection:** After wiring, visually inspect all connections to ensure they are tight and correct.
6. **Power Restoration:** Once installation is complete and verified, restore power to the electrical panel.



Image: The SCHELINGER A51-SPD01-4P-B+C CCS Surge Protector, typically installed on a DIN rail within an electrical

panel. This image shows the device's compact form factor and connection terminals.

OPERATING INSTRUCTIONS

The SCHELINGER A51-SPD01-4P-B+C is an automatic surge protection device. Once correctly installed and powered, it operates continuously to protect your electrical system from transient overvoltages. There are no user-adjustable settings or controls.

- **Status Indicator:** The device typically includes a visual indicator (e.g., a green/red flag or LED) to show its operational status. A green indicator usually signifies normal operation, while a red indicator or absence of light may indicate that the protection module has been activated and needs replacement. Refer to the device's specific markings for indicator interpretation.
- **Automatic Protection:** The device automatically diverts excess voltage to the ground, protecting connected equipment.

MAINTENANCE

Regular inspection of the surge protector is recommended to ensure its continued effectiveness.

- **Visual Inspection:** Periodically check the status indicator on the device. If the indicator shows a fault (e.g., red flag), the protection module has likely absorbed a significant surge and requires replacement.
- **Cleaning:** Keep the device free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Professional Check:** It is advisable to have a qualified electrician inspect your electrical system, including surge protection devices, during routine electrical maintenance.

TROUBLESHOOTING

If you suspect an issue with your surge protector, consider the following:

- **No Power to Protected Devices:**
 - Check the main circuit breaker for the electrical panel.
 - Verify that the surge protector's status indicator is green (operational). If it's red, the module may need replacement.
 - Ensure all wiring connections are secure.
- **Frequent Tripping of Circuit Breakers:**
 - This could indicate a fault in the electrical system or that the surge protector has been repeatedly exposed to surges. Consult a qualified electrician.
- **Surge Protector Indicator is Red:**
 - This indicates that the surge protector has absorbed a significant overvoltage event and its protective elements are exhausted. The module requires replacement to restore protection. Contact a qualified electrician for replacement.

For issues not resolved by these steps, contact a qualified electrician or SCHELINGER customer support.

SPECIFICATIONS

Model Number	A51-SPD01-4P-B+C
Protection Class	B + C (Type 1 + Type 2)
Highest Operating Voltage (Uc)	275 V AC
Impulse Current (Iimp)	5 kA
Nominal Discharge Current (In)	10 kA
Maximum Discharge Current (Imax)	50 kA
Number of Poles	4P
Mounting	35 mm DIN Rail
Operating Temperature	-40 °C to +80 °C
Compliance	EN 61643-11
Manufacturer	BEMKO SP. Z O.O.
Product Dimensions (L x W x H)	6.5 x 7.2 x 9 cm
Weight	380 grams
Material	Plastic
Color	White

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact SCHELINGER customer service through their official website or authorized distributors. Keep your purchase receipt as proof of purchase.

Manufacturer: BEMKO SP. Z O.O.

Model Reference: A51-SPD01-4P-B+C