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› Elecbee Smart DIN Rail Circuit Breaker 1P+N 40A User Manual

Elecbec EB-JJL-0011

Elecbec Smart DIN Rail Circuit Breaker 1P+N 40A

Model: EB-JJL-0011

INTRODUCTION

This manual provides essential information for the safe and efficient use of your Elecbec Smart DIN Rail Circuit Breaker. This device integrates traditional circuit protection with smart home capabilities, allowing for remote control, energy monitoring, and automation through Wi-Fi connectivity. Please read this manual thoroughly before installation and operation.



Image: The Eleebee Smart Circuit Breaker installed in a modern kitchen, demonstrating its application for controlling high-power appliances such as ovens and air conditioning units.

SAFETY INFORMATION

WARNING: Electrical installation should only be performed by a qualified electrician. Incorrect installation can lead to electric shock, fire, or other serious injury.

- Ensure the main power supply is disconnected before any installation or maintenance.
- Verify that the voltage and current ratings of the circuit breaker match your electrical system requirements.
- Do not operate the device if it appears damaged.
- This device is designed for indoor use in dry environments.
- Adhere to all local electrical codes and regulations.

PRODUCT OVERVIEW

Key Features

- **Smart Home Integration:** Transform traditional appliances into smart devices.
- **Voice and App Control:** Compatible with Tuya, Smart Life, Amazon Alexa, and Google Home for convenient control.
- **Timer Switch Functionality:** Schedule automatic switching to save energy and enhance convenience.
- **Real-time Monitoring:** Accurately monitors switch status, current, voltage, and power consumption.
- **Overcurrent and Overload Protection:** Provides essential electrical safety.
- **Family Sharing:** Allows multiple users to control the device with hierarchical permission management.



Image: An overview of the smart circuit breaker's capabilities, highlighting features such as multi-user control, energy data recording, scheduling, and built-in safety protections.

Components

The device consists of a 1P+N circuit breaker module designed for DIN rail mounting. It includes input (IN) and output (OUT) terminals for neutral (N) and live (L) wires, a status indicator, and a manual power button.

SETUP

1. Electrical Installation

1. **Power Off:** Ensure the main power supply to the electrical panel is completely turned off before beginning installation.
2. **Mounting:** Securely mount the circuit breaker onto a standard DIN rail within your electrical distribution box.
3. **Wiring:** Connect the incoming neutral (N) and live (L) wires to the 'IN' terminals. Connect the outgoing neutral (N) and live (L) wires to the 'OUT' terminals. Ensure all connections are tight and secure. Refer to the wiring diagram on the device for correct polarity.
4. **Power On:** Once wiring is complete and verified, restore the main power supply.

2. App Pairing (Tuya/Smart Life)

1. **Download App:** Download the Tuya Smart or Smart Life app from your smartphone's app store (iOS/Android).
2. **Register/Login:** Create an account or log in to your existing account.
3. **Add Device:** In the app, tap '+' or 'Add Device'. Select 'Electrical' > 'Circuit Breaker (Wi-Fi)' or similar category.
4. **Enter Pairing Mode:** Follow the app's instructions to put the circuit breaker into pairing mode. This usually involves pressing and holding the manual button until the status indicator blinks rapidly.
5. **Connect to Wi-Fi:** Enter your 2.4 GHz Wi-Fi network password when prompted. The device does not support 5 GHz Wi-Fi.
6. **Completion:** The app will detect and connect to the device. Once connected, you can rename the device and assign it to a room.

OPERATING INSTRUCTIONS

1. Manual Control

Press the physical button on the circuit breaker to manually turn the connected circuit ON or OFF.

2. App Control

Through the Tuya Smart or Smart Life app, you can:

- **Remote ON/OFF:** Toggle the power to the connected circuit from anywhere.
- **Timer & Schedule:** Set daily or weekly schedules for automatic power on/off.
- **Energy Monitoring:** View real-time and historical data for current, voltage, and power consumption. Set alarms for abnormal energy usage.

24-hour monitoring

power consumption

current voltage

CHECK POWER CONSUMPTION, CURRENT, POWER AND VOLTAGE AT ANY TIME

Works With Smartlife Works With Tuya Works With amazon alexa Works With Google Home

Image: A smartphone displaying the Smart Life app, illustrating the 24-hour monitoring feature for power consumption, current, and voltage, with the physical circuit breaker visible.

3. Voice Control

Integrate the circuit breaker with Amazon Alexa or Google Home for hands-free control.

1. **Link Accounts:** In the Alexa or Google Home app, link your Tuya Smart/Smart Life account.
2. **Discover Devices:** Ask Alexa or Google to discover new devices.
3. **Voice Commands:** Use commands such as:
 - "Alexa, turn on [Device Name]"
 - "Hey Google, turn off [Device Name]"

Free your hand

VOICE CONTROL APPLIANCES

ALEXA, TURN OFF THE BEDROOM LIGHT

Okay.

- ✓ WORK WITH TUYA, GOOGLE ASSISTANT, ALEXA, SMART LIFE.
- ✓ YOU CAN CONTROL YOUR HOME APPLIANCES ANYTIME, ANYWHERE

Image: A user interacting with a smart speaker and smartphone to control home appliances, showcasing the voice control feature compatible with Alexa and Google Assistant.

4. Family Sharing

Share control of the device with family members through the app. This allows multiple users to manage the circuit breaker remotely with customizable permissions.

Group/Family Sharing



Image: Two individuals sharing control of smart devices via their smartphones, illustrating the group and family sharing feature of the application.

MAINTENANCE

- **Cleaning:** Periodically wipe the device with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connection Check:** Ensure all wiring connections remain tight and free from corrosion. This should be done by a qualified professional.
- **Firmware Updates:** Keep the device firmware updated through the app for optimal performance and security.

TROUBLESHOOTING

Device Not Connecting to Wi-Fi

- Ensure your Wi-Fi network is 2.4 GHz. The device does not support 5 GHz.
- Check Wi-Fi signal strength at the installation location.

- Verify the Wi-Fi password entered in the app is correct.
- Restart your Wi-Fi router and try pairing again.
- Ensure the device is in pairing mode (status indicator blinking rapidly).

Device Not Responding to App/Voice Commands

- Check if the device is online in the app.
- Verify your smartphone has an active internet connection.
- Ensure your Alexa/Google Home account is correctly linked to your Tuya Smart/Smart Life account.
- Check for any app or device firmware updates.

Circuit Breaker Trips Frequently

- This indicates an overcurrent or short circuit. Immediately disconnect appliances from the circuit.
- Consult a qualified electrician to diagnose and resolve the underlying electrical issue.

SPECIFICATIONS



REFERENCE VOLTAGE: 220V,230V

PRESCRIBED WORKING VOLTAGE: 90%UN-110%UN

EXTENDED WORKING VOLTAGE: 80%UN-115%UN

CURRENT SPECIFICATION: 6-40A

FREQUENCY: 50-60Hz

POWER CONSUMPTION: VOLTAGE LINE: ≤1.5W, 6VA

COMMUNICATION: TUYA,GOOGLE HOME,ALEXA,SMARTLIFE

OPERATING TEMPERATURE: -20°C-70

WORKING HUMIDITY: ≤95%

DUSTPROOF: IP20

Image: Detailed technical specifications and dimensions of the Elecbbee Smart Circuit Breaker, including voltage, current, power, and operating conditions.

Specification	Value
Model Number	EB-JJL-0011
Brand	Elecbbee
Rated Current	40 A
Power Rating	9200 Watts
Operating Mode	ON-OFF
Connectivity Protocol	Wi-Fi (2.4 GHz only)
Control Method	Voice, App

Mounting Type	DIN Rail Mount
Circuit Type	1 Way
Material	Copper
Contact Type	Normally Open
Operating Temperature	-20°C to 70°C
Working Humidity	<95%
Dustproof Rating	IP20
Reference Voltage	220V, 230V
Prescribed Working Voltage	90%UN-110%UN
Extended Working Voltage	80%UN-115%UN
Frequency	50-60Hz

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Elecbec customer service directly. Keep your purchase receipt for warranty claims.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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