

ENGLISH

User manual

Smart RCBO 1–40 A Wi-Fi

Ref. SBLYU01-40v4 · 10–100 mA, Type AC · curve C · Tuya
Smart / Smart Life app



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For qualified electricians. Install and wire the device with the supply switched off, in accordance with the wiring rules in force.

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1 Safety

! **Risk of electric shock.** Installation, wiring and any work on this device must be carried out by a qualified electrician, with the supply switched off, secured against reconnection and checked dead, in accordance with the wiring rules in force in your country.

- Read this manual before installing the device and keep it with the documents of the distribution board.
- Install the device only inside a closed distribution board, indoors, in a dry place.
- Do not exceed the ratings: 230 V~, 50 Hz, 40 A.
- **Rated current:** never set a rated current higher than the value allowed by the wiring rules for the cables of the protected circuit. Only a person who knows the installation should change this setting.
- **Residual current threshold:** where the wiring rules require additional protection by a 30 mA residual current device (for example socket-outlet circuits or bathrooms), set the threshold to 30 mA or less. A higher threshold does not give this protection.
- The device can switch the circuit back on by itself (automatic reclosing) or remotely (app, schedule, automation). Before working on the protected circuit, do not rely on this device alone: isolate the circuit upstream, secure it against reconnection and check that it is dead.
- Do not use remote switching, schedules or automations on a circuit whose interruption could be dangerous, for example medical or safety equipment.
- Anyone with access to your app account can switch the circuit on and off: protect your account and share the device only with people you trust.
- Do not open, repair or modify the device. If it is damaged, behaves abnormally or does not trip when tested, have it replaced.

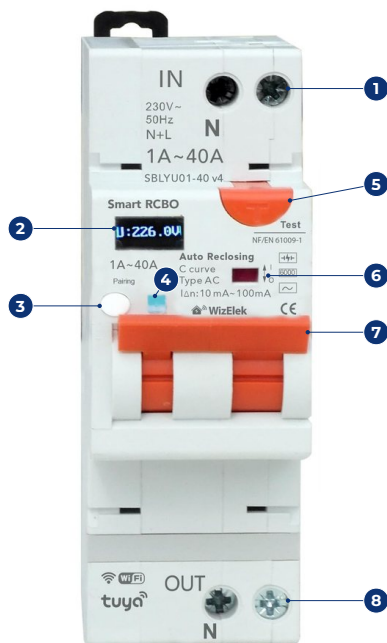
2 Your RCBO

The SBLYU01-40v4 is a residual current circuit breaker with overcurrent protection (RCBO) for a single-phase circuit — phase and neutral — 2 DIN modules wide. It combines in one device:

- ✓ **residual current protection, adjustable from 10 to 100 mA, Type AC:** detects alternating leakage currents to earth;

- ✓ **overload and short-circuit protection**, curve C, with a rated current adjustable from 1 to 40 A;
- ✓ **overvoltage, undervoltage, overpower and overtemperature protection**, with thresholds set in the app;
- ✓ **measurements** on the display and in the app: voltage, current, power, temperature, leakage current and energy;
- ✓ **remote control** over Wi-Fi with the Tuya Smart or Smart Life app: on/off, schedules, notifications and history;
- ✓ **automatic reclosing**: up to 3 attempts after a trip.

Protection, measurements and automatic reclosing work locally: the settings are stored in the device and remain active without Wi-Fi or internet.



- 1 **Supply terminals (IN):** N on the left, L on the right.
- 2 **Display** (section 5).
- 3 **Button:** short press = next value; hold for 5 s = Wi-Fi pairing.
- 4 **Wi-Fi status light.**
- 5 **Test button T.**
- 6 **Contact position indicator:** I = closed, O = open.
- 7 **Operating lever:** up = I (on), down = O (off).
- 8 **Load terminals (OUT):** N on the left, L on the right.

3 Installation

- !** Switch off the supply upstream, secure it against reconnection and check that the conductors are dead before you start.

Install the RCBO in the distribution board, at the head of the circuit or group of circuits it protects. If the installation has several distribution branches, install it downstream of the main circuit breaker.



- 1** Clip the RCBO onto a 35 mm DIN rail.
- 2** Connect the **supply** to the upper terminals **IN**: neutral to **N**, phase to **L**, as marked on the device.
- 3** Connect the **protected circuit** to the lower terminals **OUT** in the same way: neutral to **N**, phase to **L**.
- 4** Insert each conductor fully and tighten the screw firmly. Pull gently on each conductor to check that it is held.
- 5** Refit the cover of the distribution board.

- The neutral of the protected circuit must come from the **N OUT** terminal of this RCBO only. A neutral shared with another circuit makes the device trip.
- Use conductors suited to the rated current you will set (section 7).
- A metal distribution board reduces the Wi-Fi range. Check that the Wi-Fi signal is good at the board.

4 Switching on and testing

- 1** Switch the supply back on upstream.
- 2** Raise the lever to **I**. The display shows the measurements.
- 3** Press the **test button T**: the RCBO must trip and the lever drops to **O**. This checks the residual current protection.
- 4** Raise the lever to **I** again.

- i

Repeat this test **once a month**. If the device does not trip when you press T, it no longer protects: have it replaced. If automatic reclosing is on, the RCBO may switch back on by itself after the test.

5

The display

Press the button briefly to show the next value. The values follow one another in this order:

1 • U	Voltage (V)
2 • I	Current (A)
3 • P	Power (W)
4 • T	Temperature inside the device (°C)
5 • In	Leakage current (mA)
6 • ID	Technical information (address of the service interface)
7	Energy consumed (kWh)
8	Technical information (status of the service interface)

Items 6 and 8 concern a service interface reserved for the manufacturer: you do not need them.

6

Connecting to the app

- ✓

Install the free **Tuya Smart** or **Smart Life** app (App Store or Google Play) and create an account.
- ✓

Connect your phone to your **2.4 GHz** Wi-Fi network. 5 GHz networks are not supported.
- ✓

Allow the permissions the app asks for: it needs them to find the device.
- 1

On the RCBO, **hold the button for 5 seconds**, until the status light flashes red rapidly.
- 2

In the app, tap + (top right), then **Add Device**.
- 3

Tap the RCBO if the app has already found it. Otherwise, choose **Electrical** › **Circuit breaker (Wi-Fi)**.
- 4

Enter the name and password of your 2.4 GHz Wi-Fi network, then tap **Next**.

- 5 Confirm that the light is flashing rapidly and follow the instructions on the screen.
- 6 Wait until the device has been added, then tap **Done**. You can rename it, for example “Kitchen”.

i If the pairing fails, check the Wi-Fi password and the 2.4 GHz band, bring the phone close to the distribution board and start again from step 1. The app screens and menu names may vary slightly with the app version and the language of your phone.

Amazon Alexa: in the Alexa app, enable the Tuya Smart (or Smart Life) skill, sign in with the account you used above, then let Alexa discover your devices.

7 Protection settings

Open the device in the app to adjust its protections. The values are stored in the device and remain active without Wi-Fi.

Setting	Range	Factory setting
Rated current (overload)	1 to 40 A, curve C	40 A
Residual current threshold	10 to 100 mA, Type AC	30 mA
Overvoltage	250 to 350 V	280 V
Undervoltage	110 to 200 V	165 V
Overpower	5 to 9,000 W	2,000 W
Overtemperature	60 to 125 °C	80 °C

! **Set the rated current as soon as the device is paired.** At the factory setting of 40 A, the circuit is protected against overload at 40 A only. Choose a value no higher than the one allowed for the cables of the protected circuit. Without the app, the rated current stays at 40 A.

- The overpower threshold (factory setting 2,000 W) cuts the circuit when the power drawn exceeds it: raise it if you supply more powerful appliances.
- The voltage thresholds protect your appliances against an abnormal mains voltage.
- Type AC devices detect alternating leakage currents only. Circuits supplying appliances with electronic power stages — induction hobs, washing machines, heat pumps,

charging points, inverters — may produce pulsating DC leakage currents: for these circuits, the wiring rules usually require a Type A device, such as the SBLYU01-40v5.

8 Automatic reclosing

When automatic reclosing is on, the RCBO switches back on by itself after a trip caused by a **leakage current, an overload, an overpower, an overvoltage or an undervoltage**.

Trip	What the RCBO does
1st trip	switches back on after 30 seconds (attempt 1)
2nd trip	switches back on after 30 seconds (attempt 2)
3rd trip	switches back on after 30 seconds (attempt 3)
4th trip	stays off: switch it back on by hand once the fault has been repaired

- If the circuit stays on for **15 minutes** without tripping, the count starts again from zero.
- There is **no automatic reclosing** after a short circuit or an overtemperature trip.
- To switch the function on or off: in the app, open the device, then **Advanced functions**
› **Automatic reclosing**.



Automatic reclosing does not repair anything. A trip that repeats shows a fault in the installation or in an appliance: have it located and repaired.

9 Everyday use

- **On and off:** with the lever on the device, or with the on/off button in the app.
- **Schedules and timers:** switch the circuit on and off at set times, for example a water heater.
- **Measurements and history:** real-time values and the energy consumed per day, month and year.
- **Notifications:** the app can warn you when the device trips.
- **Scenes and automations:** link the RCBO to your other Tuya devices.
- **Without Wi-Fi:** protection, display and automatic reclosing keep working. Remote control, notifications and history come back with the connection.

10 Troubleshooting

The RCBO trips as soon as it is switched on.

A fault is present on the circuit (leakage, short circuit) or a threshold is set too low. Disconnect the appliances, then reconnect them one by one to find the faulty one. Check the settings (section 7) and that the neutral of the circuit is not shared with another circuit.

It trips when a powerful appliance starts.

Check the rated current and the overpower threshold in the app (factory overpower threshold: 2,000 W).

It trips for no apparent reason.

Look at the leakage current on the display (item 5): small leakages add up when many electronic appliances share one circuit, and damp or ageing appliances leak more. Also compare the voltage (item 1) with the voltage thresholds.

It does not switch back on by itself.

Automatic reclosing is off, the 3 attempts have been used, or the trip was caused by a short circuit or an overtemperature (section 8). Switch it back on by hand once the cause has been found.

The app does not find the RCBO.

Hold the button for 5 seconds until the light flashes red rapidly. Use a 2.4 GHz network, check the password and stay close to the distribution board.

The RCBO appears offline in the app.

Check the Wi-Fi signal at the distribution board and restart your router. If you changed the Wi-Fi name or password, remove the device in the app and pair it again.

The display is off.

Check that the supply reaches the IN terminals (upstream circuit breaker on).

The RCBO does not trip when you press T.

It no longer protects: have it replaced.

11 Technical specifications

Reference	SBLYU01-40v4
Type	RCBO — residual current circuit breaker with overcurrent protection, 1P+N
Product standard	EN 61009-1

Rated voltage	230 V~, 50 Hz
Rated current	adjustable from 1 to 40 A (factory setting 40 A)
Tripping curve	C
Residual current	adjustable from 10 to 100 mA, Type AC (factory setting 30 mA)
Rated short-circuit capacity	6,000 A
Other protections	overvoltage, undervoltage, overpower, overtemperature (adjustable)
Automatic reclosing	3 attempts, 30 s apart; count reset after 15 min
Display	OLED: V, A, W, °C, mA, kWh
Wi-Fi	2.4 GHz (5 GHz not supported)
App	Tuya Smart or Smart Life (iOS and Android); works with Amazon Alexa
Width	2 DIN modules (36 mm)
Mounting	35 mm DIN rail, in a distribution board, indoors

12 Warranty, disposal and compliance

Warranty. This product is covered by the legal guarantee of conformity (2 years in the EU) from the date of purchase, under normal use. The guarantee does not cover wear, incorrect installation or wiring, use outside the ratings, exposure to water or opening of the device. Return transport costs are borne by the customer. Keep your proof of purchase.

Manufacturer: BGA SAS – 36 boulevard du Montparnasse – 75015 Paris – France.
Documentation: www.wizelek.com.



Disposal. Do not dispose of this product with household waste. Electrical and electronic equipment must be taken to a collection point for recycling (WEEE Directive 2012/19/EU).

Radio. Wi-Fi 2.4 GHz (2400–2483.5 MHz).

CE marking: the EU declaration of conformity is available from the manufacturer on request.

Personal data. The Tuya Smart and Smart Life apps and their cloud service are provided by Tuya. Creating an account, storing your settings and the history of the device are governed by Tuya's privacy policy, which we invite you to read before signing up.

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