

# EKR3S Series

Smart Circuit Breaker

ETEK®



## Overview



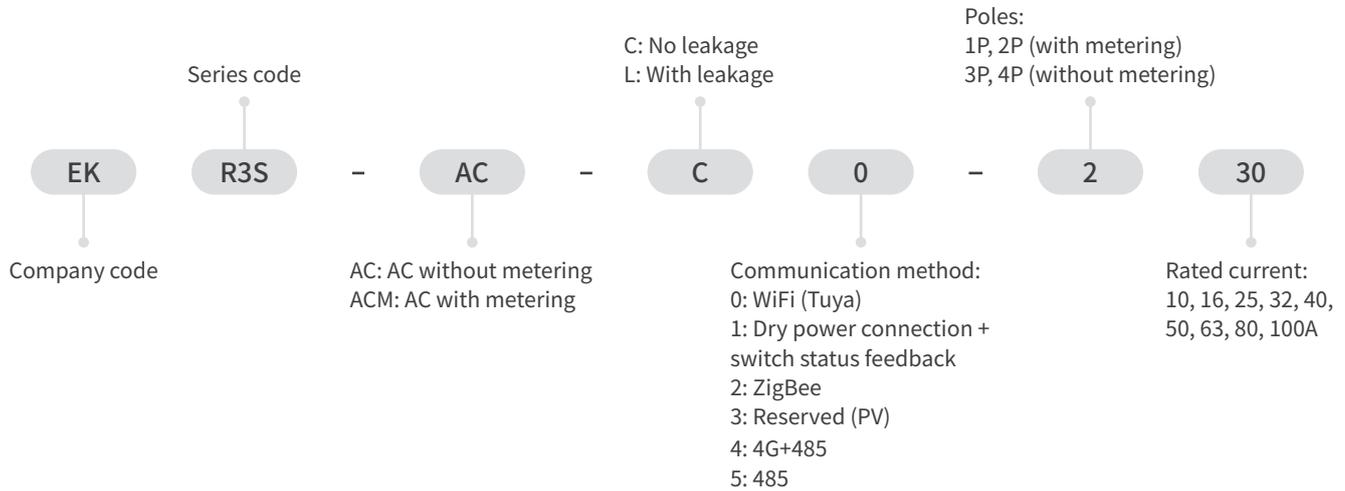
EKR3S smart circuit breaker, using electronic technology to control the normal operation of traditional circuit breakers, can monitor equipment status information in real time, including voltage, current, temperature, power, power consumption and various fault states (overvoltage, undervoltage, overload, overtemperature, etc.) Information, etc. can be reported to the client, and the protection threshold can also be set by itself. This product is an independent integrated equipment device, you can view some information of the device and set related parameters, and the operation is more humanized. After the product is connected to the Internet, it can display product information, remote control, timing, etc. on the Tuya APP.



## Features

- It can realize remote control and closing through Tuya APP, and can also be controlled regularly.
- The single-phase smart circuit breaker can monitor power parameters and power parameters in real time.
- Mechanical padlock, after being pulled out during maintenance, cannot be closed locally and remotely to ensure the safety of maintenance operations.
- With overcurrent and overload protection functions, the protection threshold can be set.
- It has the function of over-under-voltage and over-temperature protection, at the same time, you can set the alarm reminder through the Tuya APP.

Instruction of Type code



Technical Parameter

Poles	1P, 2P	3P, 4P
Rated current	10, 16, 25, 32, 40, 50, 63, 80, 100A	
Rated operating voltage and frequency	220/230VAC 50Hz	380/400VAC 50Hz
Breaking ability	6kA	
Trip type	C type, D type	
Standby power	<3W	
Trip time	≤ 0.1S	
Short circuit time	≤ 0.04S	
Control mode	Manual and automatic	
Communication method	WiFi, ZIGBEE, 485	
Installation site requirements	The altitude does not exceed 3000m	
Temperature requirements	-25°C to +70°C	

Voltage, Current, Temperature Settings

Number	Protection type	Initial state	Initial value		Setting range		Recovery value	
1	Overvoltage	Disabled	60S	280V	5-600S	100-450V	60S	275V
2	Undervoltage	Disabled	60S	115V	5-600S	5-400V	60S	120V
3	Overcurrent	Disabled	5S	100A	5-600S	0.01-120A	/	/
4	Over power	Disabled	5S	22kW	5-600S	0.01-50kW	/	/
5	Phase loss	Disabled	60S	2V	5-600S	100V	60S	> 2V
6	Voltage imbalance	Disabled	60S	2%	5-600S	1-10%	60S	< 2%
7	Overtemperature	Disabled	30S	80°C	5-600S	90-85°C	30S	< 80°C

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## LED Light Status Description

Red light is always on	Automatic mode, tripping, manual opening
Red light flashes for 100ms	Mechanical lock, command lock
Red light flashes for 500ms	Over-voltage, over-temperature, over-current, overload
Red light flashes for 1000ms	The automatic cycle closing fails, and the automatic closing fails
Green light is always on	automatic mode: manual closing, command closing, automatic closing, signal closing, timing closing, Remote opening, signal opening, timing opening
Green light flashes for 100ms	Network configuration status (priority display)
Green light flashes for 500ms	WiFi connected to the router (4G is networking)
Green light flashes for 1000ms	Automatic coincidence, stable
Red and green light flashing alternately for 100ms	Mechanism failure
Red and green light flashing alternately for 1000ms	Boot upgrade mode or OTA upgrade
Yellow light is always on	Manual mode
Light flashes for 100ms off 1900ms on	The light of the continuous display of successful networking is switched to this mode, regardless of the red light, green light, orange light, fault status priority display fault indication

## Product Size and Wiring Method

