



Overview

EKA1 Series Smart Protection Switch combines multiple circuit protection functions, including over-voltage, under-voltage, and over-current. It is designed for current working environments up to 63A and is available in two versions: one with Wi-Fi communication and one without. The Wi-Fi version allows for remote control of the switch status via smartphone and enables real-time monitoring of electrical parameters such as voltage, current, and power using the Tuya app. Users can also set the thresholds of the main electrical parameters through the front panel of the device or the smartphone app.

EKA1 Series Smart Switch is widely used in both home and industrial settings due to its easy installation and user-friendly operation and can be wired to any existing DB or distribution board.

Features

- **Integrated Protection:** Combines over-voltage, under-voltage, and over-current protection in one device.
- **High Current Capacity:** Suitable for environments with working currents up to 63A.
- **Remote Control:** Wi-Fi-enabled model allows for remote on/off control via smartphone.
- **Real-time Monitoring:** Uses the Tuya app to monitor voltage, current, and power in real-time.
- **Adjustable Parameters:** Thresholds for main electrical parameters can be set via the device's front panel or smartphone app.
- **Metering Function:** Provides accurate measurement of electrical parameters.
- **Timing Control:** Improve energy management efficiency, enhance power safety.

Technical Parameter

Standard	IEC 60947-5-1	
Model	EKA1-TW-E3	EKA1-R-V2
Communication method	Wi-Fi (Tuya)	Local operation
Display type	LCD	Digital tube
Display data	Real-time voltage	Real-time voltage
	Real-time current	/
	Real-time power	/
	Switch state	/
	Network status	/
Screen off	No operation for 60 seconds	Screen not off

EKA1 Series

Smart Relay Switch

Power button	Yes	
Network configuration button	Yes	
Control type	Remote, Manual	Manual
Poles	1P+N, N pole on the left	
Standby power consumption	≤ 1.5W	
Operating voltage range	90V~265V	
Rated frequency	50/60Hz	
Rated operating current	1-63A	
Voltage and current measuring accuracy	Class 1.0	
Energy measurement accuracy	Class 2.0	
Protection degree	IP20	
Ambient temperature	-25°C to +70°C , Max. 95% humidity	
Terminal block protection	Lead seal	
Over-voltage range	230V~300V (default:280V)	
Over-voltage recovery range	225V~295V (default:275V)	
Over-voltage tripping time	5s~600s (default:60s)	
Over-voltage recovery delay time	5s~600s (default:60s)	
Under-voltage range	100V~210V (default:115V)	
Under-voltage recovery range	100V~215V (default:120V)	
Under-voltage tripping time	5s~600s (default:60s)	
Under-voltage recovery delay time	5s~600s (default:60s)	
Over-current adjustable range	1A-63A (default:63A)	-
Over-current tripping time	5s~600s (default:60s)	-
Over-current recovery delay time	5s~600s (default:60s)	-

Dimension (mm)

