



Overview

EKA3 Series Smart Protection Switch integrates multiple circuit protection functions such as over-voltage, under-voltage, over-current, etc., and is equipped with a timing function, designed for current working environments up to 63A. Users can remotely control the switch status, monitor electrical parameters such as voltage, current, power in real time, and set corresponding protection thresholds.

EKA3 is easy to install and operate and is widely used in homes and industrial places.

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:** Allows remote on/off control via the Tuya app or RS485 platform.
- **Real-time Monitoring:** Uses the Tuya app or RS485 platform to monitor voltage, current, and power in real-time.
- **Adjustable Parameters:** Thresholds for main electrical parameters can be set Tuya app or RS485 platform.
- **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	EKA3-TW	EKA3-M
Communication method	Wi-Fi (Tuya), 2.4GHz	RS485
Status indicator	Power status	
	Network status	
	Working status	
Power button	Yes	
Network configuration button	Yes	
Control type	Remote, Manual	
Poles	1P+N, N pole on the right	
Standby power consumption	≤ 1.5W	
Operating voltage range	90V~265V	

EKA3 Series

Smart Relay Switch

Rated frequency	50/60Hz	
Rated operating current	1-63A	
Measurement accuracy	Class 2.0	
Protection degree	IP20	
Ambient temperature	-25°C to +70°C , Max. 95% humidity	
Terminal block protection	Integrated cover	
Over-voltage range	230V~265V (default:265V)	230V~300V (default:280V)
Over-voltage recovery range	Automatically reduces 5V based on over-voltage protection value	225V~295V (default:275V)
Over-voltage tripping time	-	5s~600s (default:60s)
Over-voltage recovery delay time	5s~600s (default:60s)	5s~600s (default:60s)
Under-voltage range	140V~210V (default:160V)	100V~210V (default:115V)
Under-voltage recovery range	Automatically increases 5V based on under-voltage protection value.	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)	1A-63A (default:63A)
Over-current tripping time	-	5s~600s (default:5s)

Dimension (mm)

