



The 3SYN-Series: Synchronous Switch



General:

KS-3SYN series synchronous switch is a high-performance synchronous switch researched and developed to resolve the disadvantages of existing synchronous switches on the market, such as low zero-cross-switching accuracy, and low reliability. It adopts the patented technology with KS's completely independent intellectual property rights, which provides advantages including high switching accuracy, high reliability, and long service life. On on-off switching, its inrush current is low, and there is no overvoltage or sticking of contacts; and during the operation, the voltage drop is small, the energy consumption is low, and it will not produce any harmonic wave. The technology, the performance, and the reliability of this product are in the leading position home and abroad. The KS-3YN series synchronous switch is applicable for switching loads such as low-voltage reactive power compensation capacitors, electric heating elements, lighting, electric motors, inductors, resistors, etc. The KS-3SYN series synchronous switch is a new intelligent environment-friendly low-voltage switch.

Features:

1. KS-3SYN series intelligent synchronous switch adopts the industry-leading patented technology with completely independent intellectual property rights, of which the switching accuracy is not influenced by the current magnitude and/or the harmonic wave, which can not only ensure that the making current is lower, but also overcome the problems of commercially available synchronous switches, such as larger making inrush current and fast burning loss, sticking, and poor reliability of mechanical contacts.
2. KS-3SYN series intelligent synchronous switch adopts all-photoelectric isolation design, which has strong anti-interference ability.
3. KS-3SYN series intelligent synchronous switch uses high-speed SOC microcontroller and industrial-grade electronic components, of which the electrical life is longer than 100 thousand hours.



Operating Conditions:

Environment -Temperature:	-25℃to+45℃
Rated Frequency:	50/60Hz
Circuit Power Consumption:	≤1W
Contact Voltage Drop:	≤0.1V
Relative Humidity:	20%--90% [40℃]
Rated Voltage:	450V/250V Ac
Number of phases: connected),	three-phase (triangle connected, inscribed angle single-phase (Y-connected)
Connecting and Breaking Interval:	≥ 1 second
Control Signal:	12V DC
Lifetime:	50,000~300,000 times

Protection Function:

KS-3SYN series synchronous switch uses a single chip microcomputer to control the switching and monitor the operation status of the switch contacts, providing the following protection functions:

1. Voltage fault and phase-break protection.
2. Self-diagnosis fault protection.
3. No-load protection.
4. Power-off protection and latch-up (locking) protection.

Attention:

This series of intelligent synchronous switch uses a magnet to hold the relay. If a stronger shock occurs during the transmission, the contact will be closed and the switch will be on “ON” state. In this situation, you can connect the three-phase input to 380V power supply, ten seconds after, cut off the power and the switch will be automatically return to “OFF” state.

Product code:

