

1. Application

SGLD automatic change-over switch(ATSE) integrates switch and logic control, thus it is not necessary to provide external controller. This truly electromechanically integrated automatic change-over switch has the following functions such as voltage detection, frequency detection, communication interface, electrical and mechanical interlocking etc.,so, automatic control, electrical remote control and emergency manual control can be performed.

The operation is carried out through the logic control board, which gives various commands to control the motor and gear-box. the motor drives the accelerator which can take switch-spring power accumulating and instantaneous release, swiftly turns making and breaking the circuit or makes circuit switching, the visible operation status can help you to perform safe separation, increasing extremely the various electrical and mechanical performance.

Which the shell of switch SGLD is made of different materials: the control section is made of metal, but the switching section is made of glass-fibre unsaturated polyester resin, having stronger dielectric property and protective capability as well as safe operation performance. This kind of switch is suitable for the automatic changeover of the main power source and the secondary power source of the power supply system of the automatic change-over and safe separation of the 2 sets of load-equipment. This kind of switch has a beautiful, novel and simple structure, a small volume but complete functions, being the best choice among congeneric of products.

SGLD series had been already passed the detection of EMC.

2. Specification

| Conventional thermal current Ith(A) | | | 100A | | | | | 160A | |
|--|---------------------|-------|------|------|------|------|------|-------|-------|
| Rated current In(A) | | | 20A | 40A | 63A | 80A | 100A | 125A | 160A |
| Rated impulse withstand voltage Ui(V) | | | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| Dielectric strength(V) | | | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| Rated surge-resistant voltage Uimp kV(installed category IV) | | | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Rated working current | 380V | AC-31 | 20 | 40 | 63 | 80 | 100 | 125 | 160 |
| | | AC-33 | 20 | 32 | 40 | 63 | 80 | 125 | 160 |
| | | AC-35 | 20 | 40 | 63 | 80 | 100 | 125 | 160 |
| | 220V | DC-31 | 20 | 40 | 63 | 80 | 100 | 125 | 160 |
| | | DC-33 | 20 | 32 | 40 | 63 | 80 | 100 | 125 |
| | | DC-35 | 20 | 40 | 63 | 80 | 100 | 125 | 160 |
| Moter power P(380V) kW | | | 10 | 20 | 25 | 30 | 32 | 63 | 80 |
| Rated short-time withstand current(kA Rms)0.1S/1.0S | | | 9/5 | 9/5 | 9/5 | 9/5 | 9/5 | 20/10 | 20/10 |
| Rated breaking capbility(A Rms)AC33 380V | | | 160 | 320 | 500 | 640 | 800 | 1000 | 1000 |
| Rated making capability(A Rms)AC33 380V | | | 200 | 400 | 630 | 800 | 1000 | 1250 | 1250 |
| Rated short-current making capability Icm(kA peak value) | | | 8 | 8 | 10 | 10 | 10 | 12 | 12 |
| Mechanical durability(number of cyclic operation) | | | 8000 | 8000 | 8000 | 8000 | 8000 | 5000 | 5000 |
| Electric durability | COS=0.65 AC33 | | 1500 | 1500 | 1500 | 1500 | 1500 | 1000 | 1000 |
| Change-oner time | I-0-II or II-0-1(s) | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 |
| | I-0 or II-0(s) | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 |
| Power consumption of electrical control | 24V(DC)(w) | | 50 | 50 | 50 | 50 | 50 | 75 | 75 |
| | 220V(AC)(w) | | 50 | 50 | 50 | 50 | 50 | 75 | 75 |
| Moment of operation(Nm) | | | 15 | 15 | 15 | 15 | 15 | 22 | 22 |
| Weight(kg) | 3 Poles | | | | | | | 8.2 | 8.2 |
| | 4 Poles | | 4.2 | 4.3 | 4.4 | 4.5 | 4.5 | 8.7 | 8.7 |