

ST09 SERIES



FEATURES 产品特点

- Robust Electrical Conduction Design: Terminals and the external wire are fixed with the nut, and has been designed to be an integral formation of the energized structure, which can solve the abnormal heating problem when the rivets become loose in high temperature, which finally can enhance the performance of conducting heavy current.
- Reset Level Structure: The reset lever key has been designed to be an integrated structure, which can solve the reset lever stuck problem of competing products and also avoid other a series of problems to improve its safety performance.
- Higher Contact-off Space: The product's structure design has used ever principle to achieved the performance that contact's opening distance has get 1.5mm or more after the bimetal's Sudden jump. Namely the action type could entirely meet the 2.A to guarantee the insulation between power supply and disconnecting parts belong to the basic insulation.
- Product Shape Structure: The product makes the structure optimization design and simulation design in the process of designing products, comparing to the existing products, the product space size reduce by 30%. With the characteristics of compact in structure and lightweight, which effectively solve the installation limitations caused by the large volume of product. Allowing for a wider range of product applications.
- Faster Thermal Response Time: The cap has been designed to be the convex groove structure, and bimetal is almost close to the sensing temperature surface of the product, which could improve the temperature sensing rate of the bimetal to achieve the function of rapid sensing temperature, and higher in the control accuracy.
- The product has achieved national patent.
- 通电连接方式：接线端子与外接导线采用螺母固定，形成通电一体结构、避免因铆接松动产生的发热异常，提高了产品过大电流性能。
- 复位杆结构：复位杆按键一体式结构设计，解决竞品因复位杆卡死等一系列不良问题，提高产品安全性能。
- 触头断开结构：结构设计运用了杠杆原理，实现了碟片动作后触头断开距离1.5mm以上，即动作类型满足全断开2.A型，保证电源与断开部件之间的绝缘属于基本绝缘。
- 产品外形结构：采用结构仿真优化设计，使产品尺寸比现有产品减少30%。具有结构紧凑轻巧的特点，有效解决因产品体积大造成的安装局限，应用范围得到极大地提高。
- 快速感温结构：封盖采用凸槽设计，碟片与感温面接近贴合，提高碟片感温速度，实现了产品快速感温功能，温度控制精度更高。
- 产品已获得国家专利。

SPEC. OF SERIES ST09 技术参数

- Rating: AC 250V, 45A/60A
- Open Temp.: 40~150°C
(According to Request of Customers)
- Tolerance of Open Temp.: $\pm 3^{\circ}\text{C}$, $\pm 4^{\circ}\text{C}$, $\pm 5^{\circ}\text{C}$
- Insulation Resistance: $\geq 100\text{Mohm}$ (DC500V)
- Contact Resistance: $\leq 50\text{mOhm}$
- Dielectric Strength: 1500V for 1 min
- Life cycles: 10K cycles
- Action Type: 2.A
- 电气性能: AC 250V, 45A/60A
- 断开温度: 40~150°C(根据顾客需要)
- 断开温度公差: $\pm 3^{\circ}\text{C}$, $\pm 4^{\circ}\text{C}$, $\pm 5^{\circ}\text{C}$
- 绝缘电阻: $\geq 100\text{m}\Omega$ (DC500V)
- 接触电阻: $\leq 50\text{m}\Omega$
- 电气强度: 1500V/min
- 使用寿命: 10000次
- 动作类型: 2.A