

SM-AAE Active Arc Extinguisher



General

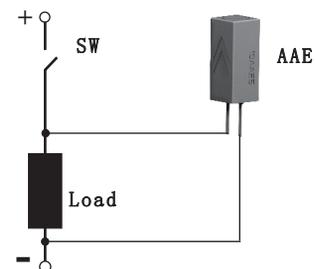
The AAE is the world's first active electronic arc extinguisher. It can meet the need of arc extinguishing in mechanical switches such as relays, breakers and button switches. It inhibits arcing or decreases arcing time, it can greatly increase the electrical operation life (10-1000 times) of the mechanical switch, it improves the current breaking ability and rated operation voltage of the mechanical switch, it greatly reduces the maintenance, it can be used for new energy vehicles, rail transit, vessels, fields of automation control etc. It's a safe and green product.

Features

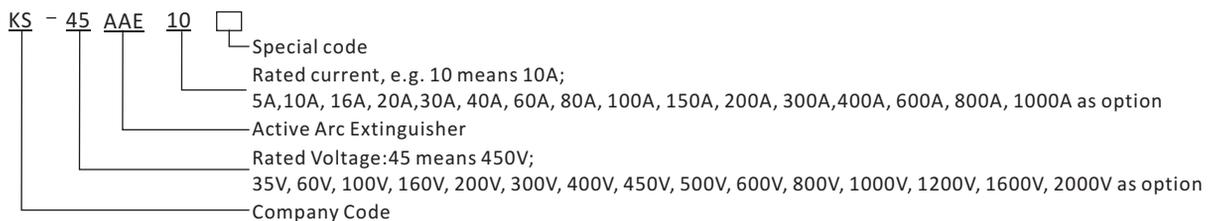
1. Small size
2. High cost effective
3. No quiescent power dissipation
4. Parallel connection with the load does not affect the insulation and withstand voltage of the mechanical switch.

Operation Principle

AAE is connected with the load in parallel, in the moment SW breaking, the AAE detects arcing or approaching arcing, then it puts out a high energy pulse signal to the load. It cause that the voltage on both ends of SW is lower than arcing voltage, so as to extinguish the arc .



Product Code

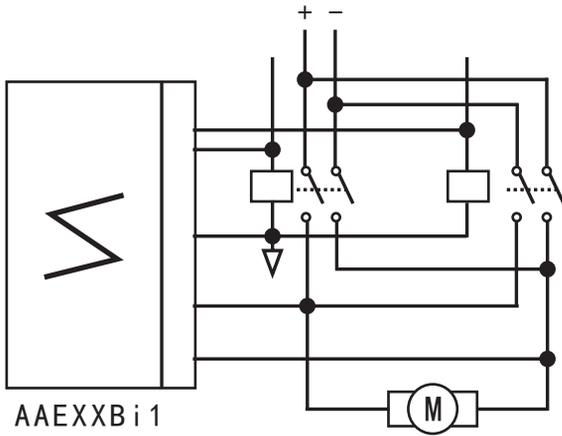


Note: the models with rated voltage over 2000V need to be customized.

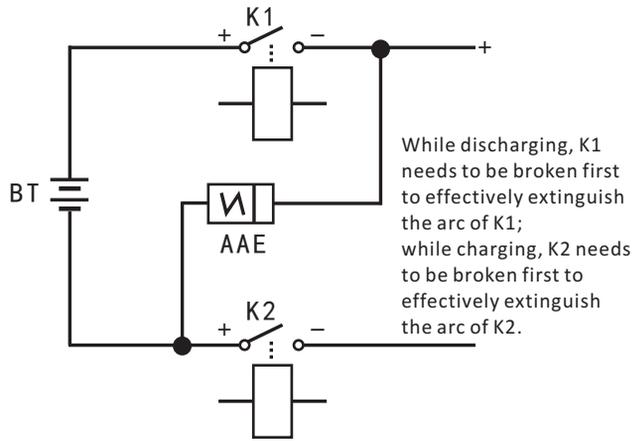
Typical Application



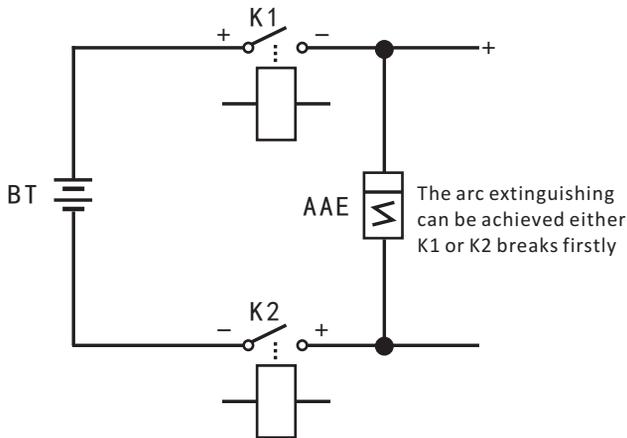
Applications



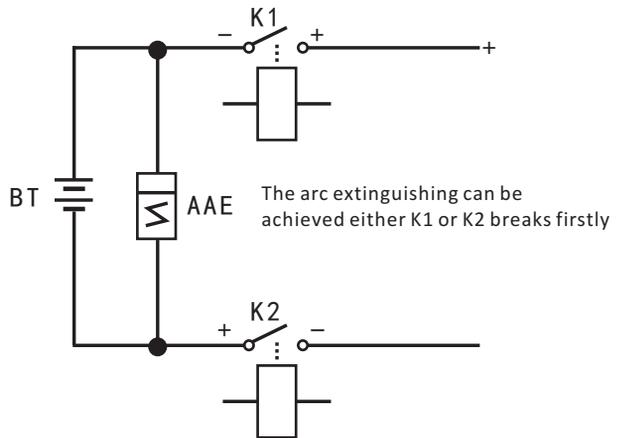
Application Circuit of AAE in Forward and Reverse Control of Motor



Schematic Diagram of Battery Discharging and Charging Arc Extinguishing Circuit



Schematic Diagram of Battery Discharging Arc Extinguishing Circuit



Schematic Diagram of Battery Charging Arc Extinguishing Circuit

