Spike Protectors

SP

Specifications

Electrical

Input Voltage: Up to 45VDC or Up to 240VAC, maximum
Varistor: (Rated Individually)

Voltage Code	Max. Allowable Voltage	Max. Clamping Voltage	Energy (Joules)
45D	45VDC	110V @ 2.5A	2.7
55A	55VAC	165V @ 25A	10
130A	130VAC	340V @ 50A	38
240A	250VAC	650V @ 10A	17

Triode: (Three-electrode gas-tube surge protector)
Sparkover Voltage: 250-350VDC

Physical

Termination: #18 Stranded Wire Leads
Packaging: Epoxy Filled with Mounting Tab for #10 Screw
Weight: 1 Oz.

Ambient Temperatures

Operating: -40°C to 85°C
Storage: -40°C to 85°C

Ordering Information

SP 45D 3 - 4

R-K Model

Operating Voltage
45D - 45VDC/35VAC
55A - 55VAC/85VDC
130A - 130VAC/175VDC
240A - 250VAC/320VDC

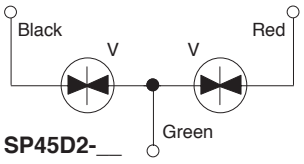
Triode Option
T - Triode
(Only on 2 varistor SP's with 45VDC ratings)

Number of Varistors
1 - 1 Varistor
2 - 2 Varistors
3 - 3 Varistors

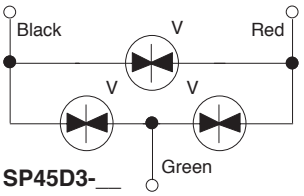
Lead Length
4 - 4 inches
6 - 6 inches
_ - specify lead length

DIN Rail Bracket #DRB-1

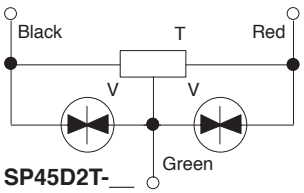
Connections



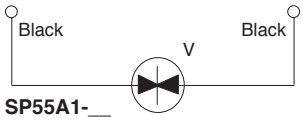
SP45D2-__



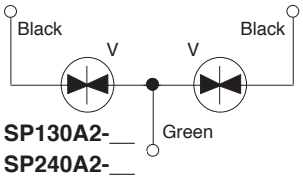
SP45D3-__



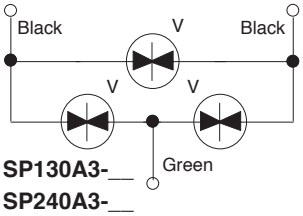
SP45D2T-__



SP55A1-__
SP130A1-__
SP240A1-__



SP130A2-__
SP240A2-__



SP130A3-__
SP240A3-__

- **45VDC, 55VAC, 130VAC, & 240VAC Ratings**
- **Ground Connection**
- **Varistor & Triode Combinations**
- **Stranded Wire Leads**
- **Analog Circuit Protection**
- **Solid State Output Protection**

Operation

Spike Protectors
R-K Spike Protectors are applied to control and instrumentation loop circuits where transient electrical voltages can cause malfunctions or damage to solid state controls or process systems. The Spike Protectors are designed to control voltage spikes within a tolerable level while minimizing any effect to the analog control signals. The SPs are typically connected in parallel with the signal leads and ground at the controller. The varistor combinations allow the excessive voltage spikes to dissipate line to line and line to ground.

Dimensions