

STV25K DIN Rail Series - Surge Protective Devices

The STV25K Series provides point-of-use protection, at the dedicated equipment level, against damaging transients. Ideal for installation in electronic control cabinets found in harsh industrial environments such as the factory floor or at remote locations. These devices provide 25,000 Amps of surge protection per phase, sine wave tracking, LED status indication and form C dry contacts. This DIN Rail series also provides protection on all electrical paths and comes with a standard ten year product warranty. The STV25K DIN Rail series surge protective devices are UL recognized to Standard 1449.

Applications (20 Amp Max)

- Control Cabinets for Industrial Automation
- Point-of-Use Industrial/Service Equipment
- Remote Commercial or Industrial Equipment
- Instrumentation and Large Test Equipment
- Commercial and Building Automation Systems

Features

- Compact and narrow design maximizes panel space
- Low clamping levels for more effective protection
- Easy access terminal screws for quick mounting and installation
- 25,000 Amps of surge protection
- Sine wave tracking and all mode protection provide consistent and reliable protection on all electrical paths
- Thermal fusing prevents MOV overheating caused by excessive current levels
- Ten year limited warranty

Certifications and Compliances

-  UL Recognized Component
  - UL 1449, type 2CA
  - UL 1283
- ABS Type Approval

Related Products

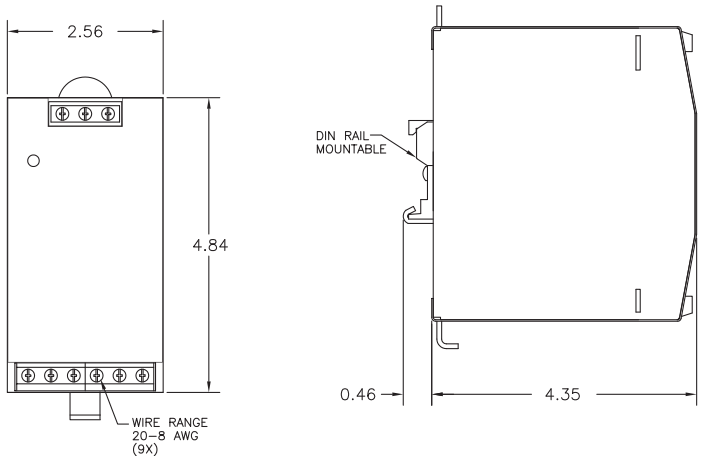
- DIN Rail Power Supplies
- DIN Rail AC UPS
- Industrial Control Transformers
- SolaHD Tracking Filters



Selection Table

| Catalog Number | Input Voltage |                        |
|----------------|---------------|------------------------|
| STV25K10S      | 120 V         | Single Phase (L - N)   |
| STV25K24S      | 240 V         | Single Phase (L1 - L2) |

Dimensional Diagram - in. (mm)



## STV25K DIN Rail Series - Surge Protective Devices

## Specifications

| Description                                 | Catalog Number                                                                                     |                                  |
|---------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
|                                             | STV25K10S                                                                                          | STV25K24S                        |
| Input Voltage                               | 120 Vac, Single Phase 0-135 Vrms                                                                   | 240 Vac, Single Phase 0-260 Vrms |
| Maximum Continuous Operating Voltage (MCOV) | 150 Vrms                                                                                           | 300 Vrms                         |
| Line Frequency                              | 47-63 Hz                                                                                           |                                  |
| Connection/Mounting Type                    | DIN Rail Mount (Chassis Mount Bracket Optional order SDN-PMBRK2) with screw terminals for #12 AWG. |                                  |
| Input Current Rating                        | 20 Amps                                                                                            |                                  |
| Phase Configuration                         | 2 Wire + Ground                                                                                    |                                  |
| Short Circuit Current Rating (SCCR)         | 5 kA                                                                                               |                                  |
| Nominal Discharge Current (In)              | 3 kA                                                                                               |                                  |
| Weight – lbs (kg)                           | 3.0 (1.36)                                                                                         |                                  |
| Dimensions H x W x D – in (mm)              | 4.87 x 2.56 x 4.75 (123.7 x 65.0 x 120.7)<br>includes mounting bracket                             |                                  |
| Modes of Protection                         | All Mode: L - N, L - L, L - G, N-G                                                                 |                                  |
| Status Indication                           | Green LED, form C Contacts                                                                         |                                  |
| Packaging                                   | Metal DIN Rail Mount Enclosure, IP20                                                               |                                  |
| Response Time                               | < 0.5 nanoseconds                                                                                  |                                  |
| Operating Temperature                       | -40 °C to +60 °C (-40 °F to +140 °F)                                                               |                                  |
| Operating Humidity                          | 0% to 95% Non-condensing                                                                           |                                  |
|                                             | <b>Noise Attenuation</b>                                                                           |                                  |
| Normal Mode                                 | 50 dB Min.                                                                                         |                                  |
| Common Mode                                 | 40 dB Min.                                                                                         |                                  |
|                                             | <b>UL 1449, Type 4 Voltage Protection Ratings (VPRs) Vpeak</b>                                     |                                  |
| L – N                                       | 500                                                                                                | —                                |
| L – L                                       | —                                                                                                  | 900                              |
| L – G                                       | 500                                                                                                | 900                              |
| N – G                                       | 500                                                                                                | —                                |
|                                             | <b>Peak Surge Current Capability</b>                                                               |                                  |
| Warranty                                    | 10 year limited warranty                                                                           |                                  |