

THIS DATA IS FOR REFERENCE PURPOSES ONLY This Product's status is: OBSOLETE.
The SDAS-01 is no longer manufactured.



Sensing Modes

Overcurrent sensor – Detects a current in excess of the value determined by the potentiometer setting. A built-in time delay, 200 ms, minimum, allows for normal starting and surge currents. Actual time delay is dependent upon potentiometer setting and magnitude of overcurrent. Any overcurrent lasting longer than this causes the internal relay of the SDAS-01 to energize. The relay will remain energized until sensor control voltage is removed, even if the overcurrent ceases to exist.

Undercurrent sensor – Reacts to a complete loss of sense current, or any current of less than the potentiometer setting. Upon application of sensor control voltage, there is a nominal 350ms delay during which time power line current must begin. This delay gives line components time to turn on. If, at the end of the delay, sense current should decrease to less than the potentiometer setting of the SDAS-01 and remain there for approximately 350 ms, the internal relay of the SDAS-01 will energize. It will remain energized until either sense control current again exceeds the potentiometer setting, or until sensor control voltage is removed.

Engineering Data

Control Voltage: 24VAC 50/60 Hz./DC ± 10%. Sense-Current Range: 1.5 to 15 amps AC.

Internal Relay Contact Data:

1 Form C (SPDT) type (code X1): 5A @ 28VDC or 2.5A @ 120VAC, res. 2 Form C (DPDT) type (code Y2): 2A @ 28VDC or 1A @ 120VAC, res. **Set Point Variation:** ±25% over operating temperature range.

Time Delay:

Overcurrent sensor: 200 ms, min., after beginning of overcurrent. Actual

delay is dependent upon potentiometer setting and

magnitude of overcurrent (see Figure 1).

Undercurrent sensor: 350 ms, typ.; 200 ms, min., from beginning of undercurrent after control voltage is applied.

Power Requirement: 1.7W or 1.7VA @ 24VAC.
Temperature Range: Storage: -40°C to +85°C.
Operating: -25°C to +70°C.

Enclosure: Plastic dust cover.

Mounting: Socket. For sockets see KUP 3 pole sockets.

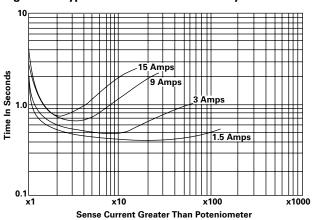
Weight: 3.17 oz. (90g) approximately.

SDAS-01 series 1.5 To 15 Amp AC P&B Current Sensor

- Zero insertion loss
- Inductive coupling to power line
- Choice of modes
 - Adjustable overcurrent sensor
 - Adjustable undercurrent sensor
- Solid state sensing circuit
- 1 Form C (SPDT) or 2 Form C (DPDT) internal relay

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Figure 1 - Typical Overcurrent Time Delay Curves



Ordering Information – Distributors are more likely to stock boldface items.

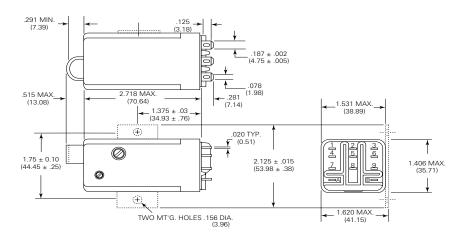
Undercurrent Sensors

Part Number	Contacts	Mounting
SDAS-01-7Y2S1024	DPDT, 2A DC/1A AC	Socket
SDAS-01-7X1S1024	SPDT, 5A DC/2.5A AC	Socket

Overcurrent Sensors

Part Number	Contacts	Mounting
SDAS-01-8Y2S1024	DPDT, 2A DC/1A AC	Socket

Outline Dimensions



Wiring Diagrams - Bottom Views

