GENERAL DETAILS OF TYPE S TIMERS

S series are compact, low cost, precision devices designed to the most demanding specifications. The small size, epoxy filled case is highly resistant against dust, vibrations, shock or humidity. Creep and strike distance according to VDE 0110 Group C 250V. Case protection IP66. Case material - Polymid.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>24 VAC/DC, 110 VAC/DC, 220 VAC/DC, ±15%, 50/60 Hz</td>
</tr>
<tr>
<td>Output Rating</td>
<td>max.: 1.0 A at 20°C, min.: 10 mA</td>
</tr>
<tr>
<td>Repetition accuracy</td>
<td>±0.5% at a constant ambient</td>
</tr>
<tr>
<td>Temp rise derating</td>
<td>5 mA / °C</td>
</tr>
<tr>
<td>Reset time SAS-L &amp; SAS-DL</td>
<td>25 ms after timing</td>
</tr>
<tr>
<td>SAS-PL</td>
<td>100 ms during timing</td>
</tr>
<tr>
<td>Leakage current during timing</td>
<td>5 mA max</td>
</tr>
<tr>
<td>Peak surge current</td>
<td>20 A &lt; 10 ms</td>
</tr>
<tr>
<td>Peak surge voltage</td>
<td>1400 V, 10 µs</td>
</tr>
<tr>
<td>Terminals</td>
<td>1/4 (6.35mm) quick connect</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-22°F to +140°F (-30°C to +60°C)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.9 oz. (55g)</td>
</tr>
</tbody>
</table>

WIRING DIAGRAM:

Function A: When input power is applied, timing (t) begins. At the end of the preselected time, the solid state SCR output turns on. The output turns off when the input power is removed, resetting the timer for the next cycle.

ORDERING INFORMATION: (100 pcs. minimum order)

S = Encapsulated requiring DIN-Rail, Panel Adapter or use Base Mounting Holes

AS = standard relay
AS-D = remote potentiometer
AS-P = internal potentiometer

100S TIME RANGE

AS = Fixed .1 sec - 1 min
AS-D = .1 sec - 60 min
Ex = 10-100 sec maintain 10:1 ratio
AS-P = .1 sec - 10 sec
1-100 sec maintain 100:1 ratio

220 AD INPUT POWER

24AD = 24 VAC/DC
110AD = 110 VAC/DC
220AD = 220 VAC/DC

1 AMP
**SDS SERIES**

**REPEAT CYCLE TIMER**

- UL listed
- CSA recognized
- Shock Resistant
- SCR Solid State Output
- Optional Remote Potentiometer
- DIN-Rail or Base Mounting

**SPECIFICATIONS:**

**Input**
- 24 VAC, 48 VAC, 110 VAC
- 220 VAC, ±15%, 50/60 Hz

**Maximum power consumption**
- 24 VAC: 0.2 VA
- 48 VAC: 0.3 VA
- 110 VAC: 0.6 VA
- 220 VAC: 1.2 VA

**Output**
- SCR

**Output Rating**
- max.: 1.0 A at 20°C
- min.: 10 mA

**Repetition accuracy**
- ±0.5% at a constant ambient

**Temp. rise derating**
- 5 mA/°C

**Reset time**
- 100 ms after timing
- 150 ms during timing

**Leakage current during timing**
- 2 mA max.

**Peak surge current**
- 20 A < 10ms

**Peak surge voltage**
- 1400 V, 100 µs

**Terminals**
- Faston 1/4” (6.35mm)

**Operating temperature**
- -22°F to +140°F (-30°C to +60°C)

**Weight**
- 1.9 oz. (55g)

**ORDERING INFORMATION:** (100 pcs. minimum order)

P.S.: Specify maximum time for “D” and “P” versions.

**WIRING DIAGRAM:**

When input power S1 is applied, the solid state output turns on immediately for the timer period specified. It then turns OFF for that same time period and repeats continuously while power is applied.

**DIMENSIONS** See page 3-34
SHS SERIES
INTERVAL TIMER WITH
SOLID STATE OUTPUT
UL listed   CSA recognized

- Epoxy Encapsulated
- DIN-Rail or Base Mounting
- Internal or External Time Set
- Fixed Time

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Input</th>
<th>24 VAC, 48 VAC, 110 VAC 220 VAC, ±15%, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum power consumption</td>
<td>24 VAC: 0.2 VA 48 VAC: 0.3 VA 110 VAC: 0.6 VA 220 VAC: 1.2 VA</td>
</tr>
<tr>
<td>Output</td>
<td>SCR</td>
</tr>
<tr>
<td>Output Rating</td>
<td>max.: 1.0 A at 20°C min.: 10 mA</td>
</tr>
<tr>
<td>Repetition accuracy</td>
<td>±0.5% at a constant ambient</td>
</tr>
<tr>
<td>Temp. rise derating</td>
<td>5 mA/°C</td>
</tr>
<tr>
<td>Reset time</td>
<td>100 ms after timing 150 ms during timing</td>
</tr>
<tr>
<td>Leakage current during timing</td>
<td>2 mA max.</td>
</tr>
<tr>
<td>Peak surge current</td>
<td>20 A &lt; 10 ms</td>
</tr>
<tr>
<td>Peak surge voltage</td>
<td>1400 V, 100 µs</td>
</tr>
<tr>
<td>Terminals</td>
<td>Faston 1/4˝ (6.35mm)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-22°F to +140°F, -30°C to +60°C</td>
</tr>
<tr>
<td>Weight</td>
<td>1.9 oz. (55g)</td>
</tr>
</tbody>
</table>

Function H:
Internal Timer

Input Power S1

Output

0  T  t

The solid state output turns on when the input power (S1) is applied. The output turns off at the end of time (T). The timer is reset when the input power is removed.

WIRING DIAGRAM:

Note: Available with internal potentiometer in HS-P Series.

ORDERING INFORMATION: (100 pcs. minimum order)
P.S.: Specify maximum time for “D” and “P” versions.

DIMENSIONS See page 3-34

Products and specifications subject to change without notice.

Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com