**AC CURRENT TRANSUCER**

**SERIES S383**

**4 TO 20mA 2 WIRE LOOP OPERATION**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>INPUT RANGE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>S383-2A</td>
<td>0 to 2Aac</td>
<td>S383-40A</td>
<td>0 to 40Aac</td>
</tr>
<tr>
<td>S383-3A</td>
<td>0 to 3Aac</td>
<td>S383-50A</td>
<td>0 to 50Aac</td>
</tr>
<tr>
<td>S383-5A</td>
<td>0 to 5Aac</td>
<td>S383-75A</td>
<td>0 to 75Aac</td>
</tr>
<tr>
<td>S383-10A</td>
<td>0 to 10Aac</td>
<td>S383-100A</td>
<td>0 to 100Aac</td>
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<tr>
<td>S383-15A</td>
<td>0 to 15Aac</td>
<td>S383-150A</td>
<td>0 to 150Aac</td>
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<tr>
<td>S383-20A</td>
<td>0 to 20Aac</td>
<td>S383-200A</td>
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<tr>
<td>S383-25A</td>
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<td>S383-250A</td>
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<tr>
<td>S383-30A</td>
<td>0 to 30Aac</td>
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</tbody>
</table>

**INPUT**

- RANGE: Aac See Table
- FREQUENCY: 50 to 60 Hz
- OVERLOAD CONTINUOUS: 500Aac
- OVERLOAD TRANSIENT: 10 Times Range For 250m-sec.

**OUTPUT**

- CURRENT SIGNAL: 4 to 20mAdc FS (Full Scale)
- ACCURACY: ±0.5% FS or ±0.1mA max. (Over Temperature Range)
- RIPPLE: 10mV RMS max.
- RESPONSE (10 to 90%): 100mS max.
- LOAD RESISTANCE (RL): 250 Ohms Nominal
- LOAD RESISTANCE RANGE: 0 to 1400 Ohms (See Note)
- CURRENT SIGNAL @ OVERLOAD: 30mA TYP.
- PROTECTION: Reverse Polarity Protected

**POWER SUPPLY (PS)**

- SUPPLY VOLTAGE: 15Vdc Nominal
- CURRENT DRAIN: 20mA
- SUPPLY VOLTAGE RANGE: 5 to 35Vdc

**ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS**

- OPERATING TEMPERATURE RANGE: -40° to +85°C
- STORAGE TEMPERATURE RANGE: -40° to +85°C
- ISOLATION: Input/Output/Case
- INSULATION RESISTANCE: 200 M-Ohms @ 500Vdc
- INPUT CONDUCTOR VOLTAGE: 1.5KV max. (5KV max. with insulated cable)
- CASE**: Aluminum type 1100-0 (finish corvel lava black 20-7042HY polyester powder coat)
- WEIGHT: 10 oz. Max.

**NOTE:**

- MINIMUM DC SUPPLY VOLTAGE = Vx + .02 (RL)
- RL = ANY VALUE BETWEEN 0 AND 1400 OHMS.
- Vx = 7V FOR P/N S383-2 AND S383-5
- Vx = 5V FOR P/N S383-10 THRU S383-250

**TERMINAL SCREWS:**

5-40 SCREWS, 3/8" CENTER TO CENTER
SPACING ACCEPTS WIRE SIZES UP TO 14 AWG.
AND WIRE LUGS UP TO 9/32 WIDE.