3 PHASE AC RMS CURRENT TRANSUDER
SERIES S1096
4 to 20mA LOOP POWER

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CURRENT RANGE</th>
<th>OVER LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1096-2</td>
<td>0 to 2</td>
<td>500</td>
</tr>
<tr>
<td>S1096-5</td>
<td>0 to 5</td>
<td>500</td>
</tr>
<tr>
<td>S1096-10</td>
<td>0 to 10</td>
<td>500</td>
</tr>
<tr>
<td>S1096-20</td>
<td>0 to 20</td>
<td>500</td>
</tr>
<tr>
<td>S1096-25</td>
<td>0 to 25</td>
<td>500</td>
</tr>
<tr>
<td>S1096-50</td>
<td>0 to 50</td>
<td>500</td>
</tr>
<tr>
<td>S1096-75</td>
<td>0 to 75</td>
<td>500</td>
</tr>
<tr>
<td>S1096-100</td>
<td>0 to 100</td>
<td>500</td>
</tr>
</tbody>
</table>

INPUT
RANGE ......................................................... Aac rms (see table)
OVERLOAD ...................................................... Aac rms (see table)
FREQUENCY RANGE ................................. 47 to 63Hz (Optional Model Available)*

OUTPUT (Phase A, B & C)
CURRENT SIGNAL .................................. 4 to 20mAdc FS (Full Scale)
ACCURACY (Over the Temperature Range)  ±0.5% FS max. (± 100µA) note 1
RIPPLE ........................................ 0.2% max. (40uAac)
RESPONSE (10 to 90%) .................. 300m-sec.
LOAD RESISTANCE (RL) ............... 250 Ohms Nominal (0 to 300 Ohms Range)
CREST FACTORS ...................... 0 to 5
CURRENT SIGNAL @ OVERLOAD ........ 23mAdc typ.
OUTPUT PROTECTION .................. Reverse Polarity Protection

POWER SUPPLY (PS)
SUPPLY VOLTAGE .................. +24Vdc
CURRENT DRAIN ................. 12 to 70mAdc
SUPPLY VOLTAGE RANGE ....... +14 to 32Vdc

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS
OPERATING/STORAGE TEMPERATURE RANGE ...... -40° to +85°C
CONDUCTED SUSCEPTIBILITY (Note 2) .......... DO-160E Section 20 (1.5mA @ 10KHz to 75mA.
TRANSENT BURST (EN 50155) ............... @ 500KHz to 400MHz).
SURGES (EN 50155) .................. ±2KV Peak supply & output leads
ELECTROSTATIC DISCHARGE (ESD) .......... ±2KV Open CKT test voltage supply leads.
HUMIDITY (Operating) ................. 0% to 100%RH
MOISTURE RESISTANCE ......... MIL-STD-202 Method 106.
RANDOM VIBRATION (Operating) ....... MIL-STD-810F, Proc.1,Cat.12, WO=.095G2
SHOCK .................................... 50g 11m-sec. half sine pulse
ISOLATION ................................ 500 M-Ohms @ 100Vdc.
INSULATION RESISTANCE ......... Case Material  Fuse Tin Plate Per ASTM-B-545.
CASE MATERIAL ................. Brass.
FINISH ........................................... 4 lbs. Max.

TERMINAL IDENTIFICATION
1. SUPPLY (+) 2. OUTPUT PHASE A
3. OUTPUT PHASE B 4. OUTPUT PHASE C
5-9 SPARE

* Optional Model
ADD SUFFIX -400 TO PART NUMBER FOR 400Hz OPERATION.

Note 1: Specified accuracy includes the combined worst case effects of 4mA Offset,
Temperature, Hysteresis, Supply Swings and Current Cable Positioning.
Note 2: Requires bonding/grounding for conductive susceptibility compliance.
The bottom surface of the mounting plate is provided with conductive finish
Per ASTM-B-545. (3% min. to 12% max. lead allow)
Note 3: Pin Contacts are Copper alloy with gold plated over nickel.