Rogowski Coil Current Probe

SS-282
60Apk. 20MHz (AC)  1.2kVpk

SS-283
120Apk. 20MHz (AC)  1.2kVpk

SS-284
300Apk. 20MHz (AC)  1.2kVpk

Ideal for measuring high current power devices

Features
- Wide Bandwidth 9Hz*1 - 20MHz
- Peak voltage isolation 1.2kV
- Flexible coil current probe for probing Power Devices
- Zero adjustment
- Three models, peak current of 60A/120A/300A*2 are available

*1 The case of SS-284  *2 Available in the near future

Applications
- Simultaneous measurements of the inverter's switching current waveform and voltage pulse response
- AC current measurements with large DC offset
- Impulse high current measurements for Bus Bar
Rogowski Coil Current Probe

SS-282 / SS-283 / SS-284

External view

Specifications

Basic Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Sensitivity [mV/A]</th>
<th>Peak Current [A]</th>
<th>peak di/dt [kA/µs]</th>
<th>LF cut off ft. [Hz]</th>
<th>Noise [mV rms]</th>
<th>Absolute Maximum rating of di/dt @70°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-281*1</td>
<td>*1</td>
<td>30</td>
<td>*1</td>
<td>3.1</td>
<td>6.5</td>
<td>1.8</td>
</tr>
<tr>
<td>SS-282</td>
<td>100</td>
<td>60</td>
<td>3</td>
<td>6</td>
<td>32</td>
<td>25</td>
</tr>
<tr>
<td>SS-283</td>
<td>50</td>
<td>120</td>
<td>6</td>
<td>15</td>
<td>9</td>
<td>2</td>
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<tr>
<td>SS-284</td>
<td>20</td>
<td>300</td>
<td>15</td>
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<tr>
<td>SS-285*1</td>
<td>*1</td>
<td>600</td>
<td>*1</td>
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</tbody>
</table>

Frequency Bandwidth:

- f_L: Low Frequency (-3dB) bandwidth
- f_L: 20MHz [-3dB]

Accuracy:

±2%

Output Connector Type:

BNC

Max. Output Voltage:

±6V (Termination ≥ 100kΩ) ±2V at 50Ω

Typical Linearity:

±0.05% of full-scale

Zero adjustment ranges:

±300mV or more

Coil (Sensor)

- Approx. 80mm
- Approx. 1.7mm

Peak Voltage Isolation:

1.2kVpeak

Temperature Range (operation):

-10°C ~ +70°C

Mainframe (Amplifier Box)

- Approx. 80(W)×165(H)×35(D) mm (without the external projection portion)

Size:

- Approx. 1m

Cable Length:

- Approx. 0.35kg

Weight:

- 4 - 1.5V AA type

Power supply:

- 12H typ, Alkaline batteries (Termination ≥ 100kΩ)

Accessories:

- BNC 50Ω cable (1), Manual (1), Driver for adjustment (1)
- Carry case (1), AA alkaline batteries : (4)

Environmental conditions:

- Operating temperature and humidity ranges:
  0°C ~ +40°C, 80%RH or less (Except for the sensor)
- Storage temperature and humidity ranges:
  -10°C ~ +60°C, 80%RH or less
- Operating elevation:
  ≤2,000m

*1 Available in the near future

http://www.iti.iwatsu.co.jp/

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