

# RIK 5A

## 5A Rogowski Integrator Kit Datasheet



The Accuenergy 5A Rogowski Integrator Kit (RIK 5A) conveniently provisions up to three channels for Rogowski coils to be integrated to any metering device application that accepts a 5A input. Each integrator channel can be adjusted to accept one of seven field configurable CT ratios for added flexibility. The RIK 5A can be used on services up to 60,000A AC.

### Features

- Available as a three-channel kit & compatible with both 50/60Hz systems
- Seven field-configurable CT ratios: 500A, 1kA, 2.5kA, 5kA, 10kA, 25kA, 50kA
- The rope-style current transformer flexes to fit into tight electrical panels
- The 0-5A rated output is compatible with any device with a 5A nominal current transformer input
- 2.5A to 50,000A current sensing range accommodates nearly any application
- CT ratios can be configured independently for each channel
- Includes three Rogowski coils



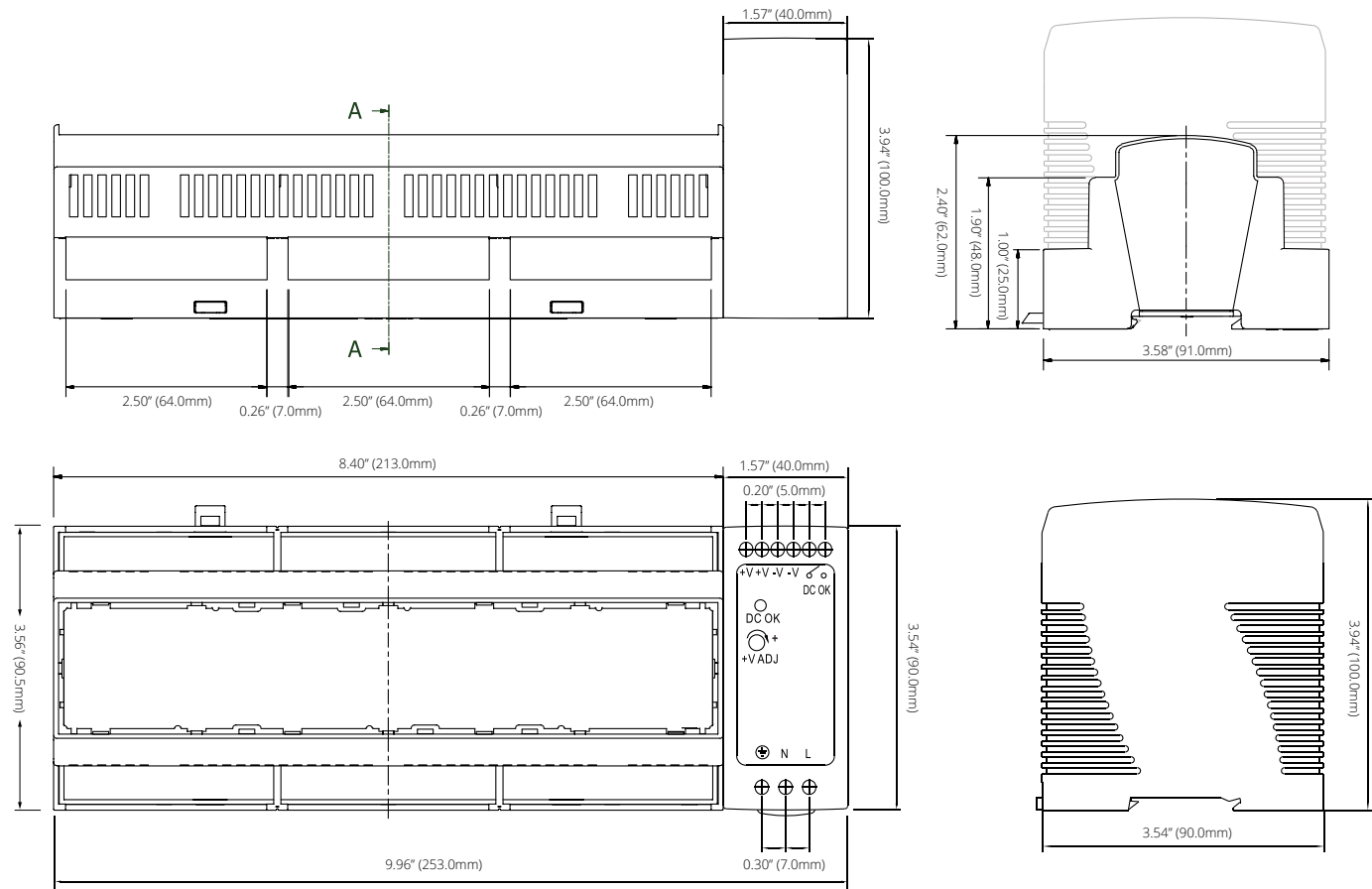
### Specifications

| RATED CURRENT                 |                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Current Range                 | 2.5A - 60000A                                                                                                                     |
| Sensing Range                 | 500A, 1000A, 2500A, 5000A, 10000A, 25000, 50000A<br>User Selectable                                                               |
| Integrator Output             | 0 - 6A RMS (0 - 5A RMS Nominal)                                                                                                   |
| Integrator Accuracy           | ±1% Full Scale Error                                                                                                              |
| MECHANICAL/ENVIRONMENTAL      |                                                                                                                                   |
| Integrator Kit Size           | 253.0mm x 90.5mm x 100mm<br>9.97" x 3.56" x 3.94"                                                                                 |
| Input/Output Wire Connection  | 14 - 30 AWG                                                                                                                       |
| Operating Temperature         | 55°C (131°F) Maximum                                                                                                              |
| Operating Humidity            | Non-condensing, 0 to 95% RH                                                                                                       |
| Integrator Enclosure Material | ABS, UL 94V-0                                                                                                                     |
| Mounting                      | DIN TS-35/7.5 or 15 (DIN 43880) or Panel                                                                                          |
| ELECTRICAL                    |                                                                                                                                   |
| Measurement Channels          | 3 Channels (three-phase or single-phase)                                                                                          |
| Channel Cross Talk            | <-60dB                                                                                                                            |
| Response Time                 | <10ms                                                                                                                             |
| Burden                        | 1.8VA/channel                                                                                                                     |
| Maximum Output Impedance      | 50mΩ                                                                                                                              |
| Power Supply                  | AC/DC Power Supply 24Vdc, 85-264Vac                                                                                               |
| Supply Voltage                | 24Vdc ±5%                                                                                                                         |
| Supply Current                | 0.9Adc at 24Vdc                                                                                                                   |
| SAFETY/COMPLIANCE             |                                                                                                                                   |
| Certifications                | CE, RoHS, UL Listed (E359521)                                                                                                     |
| ROGOWSKI COIL OPTIONS:        |                                                                                                                                   |
| Window Size                   | RCT16-1000 - 106.0mm (4.17")<br>RCT24-1000 - 178.0mm (7.01")<br>RCT36-1000 - 271.0mm (10.67")<br>RCT47-1000 - 369.0mm (14.53")    |
| Length of Coil                | RCT16-1000 - 400.0mm (15.75")<br>RCT24-1000 - 600.0mm (23.62")<br>RCT36-1000 - 900.0mm (35.43")<br>RCT47-1000 - 1200.0mm (47.24") |
| Coil Material                 | Orange thermoplastic rubber<br>UL 94V-0 rated flame retardant                                                                     |
| Lead Wires                    | 1000V UL Style 20940, 26AWG                                                                                                       |
| Wire Polarity                 | White=Positive, Brown=Negative,<br>Bare=Shield                                                                                    |
| Phase Orientation             | Arrow Points Towards Load                                                                                                         |

## Integrator's Current Range Settings

| PRIMARY INPUT (A <sub>RMS</sub> ) | SENSING RANGE (A) | OUTPUT     | CT RATIO |
|-----------------------------------|-------------------|------------|----------|
| 500                               | 2.5 to 600        | 5A @500A   | 500:5    |
| 1000                              | 5 to 1200         | 5A @1000A  | 1000:5   |
| 2500                              | 12.5 to 3000      | 5A @2500A  | 2500:5   |
| 5000                              | 25 to 6000        | 5A @5000A  | 5000:5   |
| 10000                             | 50 to 12000       | 5A @10000A | 10000:5  |
| 25000                             | 125 to 30000      | 5A @25000A | 25000:5  |
| 50000                             | 250 to 60000      | 5A @50000A | 50000:5  |

## Dimensions



## Ordering Information

|                  | Model | Rogowski Coil Length | Integrator Output | Lead |
|------------------|-------|----------------------|-------------------|------|
| Ordering Number  | RIK   | -                    | -                 |      |
| Ordering Example | RIK   | 24                   | 5A                | 5M   |
|                  |       | 16                   | 5A                | 2M   |
|                  |       | 24                   |                   | 5M   |
|                  |       | 36                   |                   | 10M  |
|                  |       | 47                   |                   | 25M  |
|                  |       |                      |                   | 50M  |



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