

Data Sheet

Flexible Current Sensors

FCT 3000A Series



Features

- Rogowski Coils connect directly to PQube 3 current inputs: No external integrator or external power required
- Wide current sensing measurement range 30 A to 6000 A
- High magnitude accuracy of $\pm 0.5\%$ across the measurement range
- Flexible, split core design enables easy installation
- Rope lengths of 24 in., 36 in., 48 in. provide application versatility for most conductor sizes

Technical Specifications

ELECTRICAL CHARACTERISTICS	
Current Measurement Range	30 A to 6000 A
Calibrated Output Vac at 1000 A	85 mV @ 50 Hz (CT Ratio 1000:0.085) 102 mV @ 60 Hz (CT Ratio 1000:0.102)
Accuracy (at 25°C, 50 Hz/60 Hz)	$\pm 0.5\%$ of reading
Interchangeability Variance	$\pm 0.5\%$ of reading
Linearity	$\pm 0.2\%$ of reading
Crest Factor	2.8
Internal Resistance	$157 \Omega \pm 15 \Omega$
Load Resistance (burden)	33.3 k Ω
Bandwidth (-3 dB)	10 Hz to 20 kHz
Phase Error (45 – 65 Hz)	$\pm 1^\circ$
Temperature Coefficient	$\pm 0.05\%$ of reading / °C
Position Sensitivity	$\pm 2\%$ of reading
Working Voltage	1000 Vac or Vdc (Probe), 30Vac max (Output)

GENERAL CHARACTERISTICS

Probe and Cable Material	Alcryn 2070 NC double insulated; UL94 V-0
Probe Cable Diameter	9.9 mm (0.39 inches)
Output Cable Length	4 to 30 m, Wires terminated with 8mm non-insulated ferrules
Operating Temperature Range	-20°C to 65°C
Storage Temperature Range	-40°C to 75°C
Operating Humidity	15% to 85% (non-condensing)
Degree of Protection	IP65

OUTPUT CONNECTIONS

Red	Output +
Black	Output -
Green	Ground (Screen)

SAFETY & STANDARDS

EN 61010-1:200 EN 61010-2-032:2002	1000 Vac, Category III; 600 Vac, Category IV; Pollution Degree 2 Use of the probe on uninsulated conductors is limited to 1000 Vac or Vdc and frequencies below 1 kHz.
---------------------------------------	---

Order Information

Part Numbers:

- 24" Loop: FCT-24-3000A-00
- 36" Loop: FCT-36-3000A-00
- 48" Loop: FCT-48-3000A-00

Contact Us

Canada
7850 Trans-Canada Highway
Saint-Laurent (QC) H4T 1A5
1 (877) 333-8392

United States
980 Atlantic Ave., Suite 100
Alameda, CA 94501
1 (888) 736-4347

TDS # 880-000142
Version 7 – 2/6/2023

sales@powerside.com
powerside.com



POWERSIDE[®]

All our energy, in your power