

OSI 3-CHANNEL ROGOWSKI COIL INTEGRATOR MODEL FCA3000

DESCRIPTION

The FCA3000 is a multi-channel current converter designed to operate with MFC150 series of Rogowski coils. Three independent input channels allow for measurement of a single three-phase system or multiple single-phase systems. Three dc output signals indicate the true RMS value of the individual input channels. A fourth output signal represents the sum of the three inputs - system current for three-phase systems.

Application flexibility is provided by jumper-selectable output response time values and frequency equalization to allow Rogowski coils to be used over a wide range of frequencies.



FEATURES

- Three independent input/output channels
- Fourth output for sum of three input channels
- True RMS measurements
- Jumper-selectable output response time
- Compact and convenient DIN-Rail enclosure
- Powered by any standard power mains from 80 to 260Vac

5 YEAR WARRANTY

APPLICATIONS

- True RMS current measurement
- High-current measurement
- PLC interface
- SCADA systems



MODEL SELECTION

FCA3000 - -

FULL-SCALE INPUT		OUTPUT	
0300	300A	D	0-10Vdc
3K	3kA	N	0-20mAdc
K050	50kA	E	4-20mAdc
K300	300kA		

ORDERING INFORMATION

Example 3000A F.S. Input, 0-10Vdc output,

FCA3000-3K-D

NOTE: All models designed for use with separately-supplied 100mV/1kA, MFC150 series Rogowski coils.

SPECIFICATIONS

INPUTS (3) From MFC150 series Rogowski coils
Standard..... 100mV/1kA@50Hz

OUTPUTS (4)
Scaling
Option D..... 0-F.S. Input = 0-10Vdc Output
Option E..... 0-F.S. Input = 4-20mAdc Output
Option N..... 0-F.S. Input = 0-20mAdc Output
Loading
Option D..... >100kΩ
Option E..... <300Ω
Option N..... <300Ω
Response Time (default value) 150ms
(jumper-selectable from 50 to approx. 150ms)

INSTRUMENT POWER80-260Vac, 45-65Hz, 3VA

ACCURACY
Accuracy (typical).....±1%Rdg. ±0.3%F.S

MECHANICAL
Enclosure Material Noryl UL94-V0
Size (approximate) 3.7in. x 6.2in. x 2.3in.
Weight (approximate) 9oz.
DIN-Rail Format EN50022
Protection Degree Front panel..... IP51
Terminals IP20
Refer to User's Manual for installation instructions.

ENVIRONMENTAL
Operating Temperature Range..... -10 to 50°C
Storage Temperature Range -25 to 60°C
Operating Humidity 0-75% non-condensing

STANDARDS COMPLIANCE
Safety 73/23/EEC and 93/68/EEC directives, EN61010.1 safety standard
EMC
89/366/EEC directive with following modifications:
93/31/EEC, 93/68/EEC, EN50081-2, EN50082-2, EN61326/A1