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.

POSITION FCA3000

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

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	
	K010	10kA	E	4-20mAdc	
	K020	20kA			

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 Standard100mV/1kA@50Hz	MECHANICAL Enclosure Material		
OUTPUTS (4) Scaling Option D0-F.S. Input = 0-10Vdc Output Option E0-F.S. Input = 4-20mAdc Output Option N0-F.S. Input = 0-20mAdc Output Loading	Weight (approximate) 9oz DIN-Rail Format EN50022 Protection Degree Front panel IP50 Terminals IP20 Refer to User's Manual for installation instructions.		
Option D	ENVIRONMENTAL Operating Temperature Range10 to 50°C Storage Temperature Range25 to 60°C Operating Humidity0-75% non-condensing		
INSTRUMENT POWER80-260Vac, 45-65Hz, 3VA	STANDARDS COMPLIANCE Safety73/23/EEC and 93/68/EEC directives, EN61010.1 safety standard		
Accuracy (typical)±1%Rdg. ±0.3%F.S	EMC 89/366/EEC directive with following modifications: 93/31/EEC, 93/68/EEC, EN50081-2, EN50082-2, EN61326/A1		



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