

eCAP-9060

Multifunction Capacitor Controller

With Fault Current Capture

Based upon QEI's field proven 6ACP5 platform, the eCAP-9060 provides three-phase, single-phase, 3-step, or 2-step capacitor bank control in a cost effective package.

When equipped with a suitable serial or TCP/IP based communication channel, the eCAP-9060 provides SCADA functionality via DNP or any other current or legacy protocol from the 6ACP5 library to smoothly integrate with your larger distribution management system.

CONFIGWIZ®, our configuration software module, provides a user-friendly, drag-and-drop Windows® Interface for intuitive operation and faster training in order to get you up and running quickly.

The eCAP-9060 accepts voltage and current inputs from either line post sensors or PTs and CTs. Capacitor switching may be based on either voltage or kVAR, with a local voltage override option included, which has precedence over kVAR control. Neutral current detection is also present.

The +12Vdc 2.0A power supply provides power for both the 6ACP5 board itself and a user supplied radio. Six control relay outputs (each rated at 10A/250VAC) are arranged as 3 trip/close pairs for independent or ganged control of three cap bank switches. Front panel switches are included for Phases A,B,C open/close and auto, manual, local/remote and lock-out indicators are also standard.



Capacitor Control

SPECIFICATIONS

Input Power Requirement: 2.0 Amp @ 120 VAC, 60 Hz nominal
Optional capacitor backup providing up to 30 seconds of power to communicate fault current values
eCAP-9060 includes +12Vdc power for radio equipment
Actual input power requirement will vary based on radio usage

Communications: One RS-232 serial port for configuration
One RS-232 serial port for radio communications
Various protocols available
Note: +12Vdc power for radio is included (+12Vdc nominal @ 2 A max).

Fault Current Monitoring: Accepts linepost inputs directly and reports via DNP3

Configuration: ConfigWiz®. (Windows® based configuration module)

Environmental: Temperature: 32 °F to 158 °F (0 °C to 70 °C)
Humidity: 0% to 95% @ 158 °F, non-condensing

Typical Configuration: Stainless Steel, NEMA 4 front access enclosure
Dimensions (H x W x D): 20 x 16 x 8 inches
Weight: 80.0 lbs

Mounting: Wall or Pole-Top

CONTROLS AND INDICATIONS

Front Panel Switch Control: A,B,C Phase Trip/Close, Local/Remote SCADA Control

Local LCD Readout: 20 X 4 LCD display of monitored values and states

CommFail: Revert to automatic control if communications to the master station fail

Auto Control: Fully automatic control based on internal user-defined switching algorithms

Lockout: Failure detected - control operations blocked until reset either locally or from SCADA master station

SAFETY

Burnout protection blocks all switch operations until line voltage reaches an acceptable level

Hunting, Operation Retry Rate as well as the total number of attempts can be user limited

Programmable time interval & retries for detected neutral fault conditions

QEI LLC

45 Fadem Road

Springfield, NJ 07081 USA

T: +973-379-7400 F: +973-379-2138

E: sales@qeinc.com

W: www.qeinc.com

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