SPECIFICATION SHEET

ELECTRONIL™

TRANSFER SWITCH

MAINS SYNC. CONTROLLER

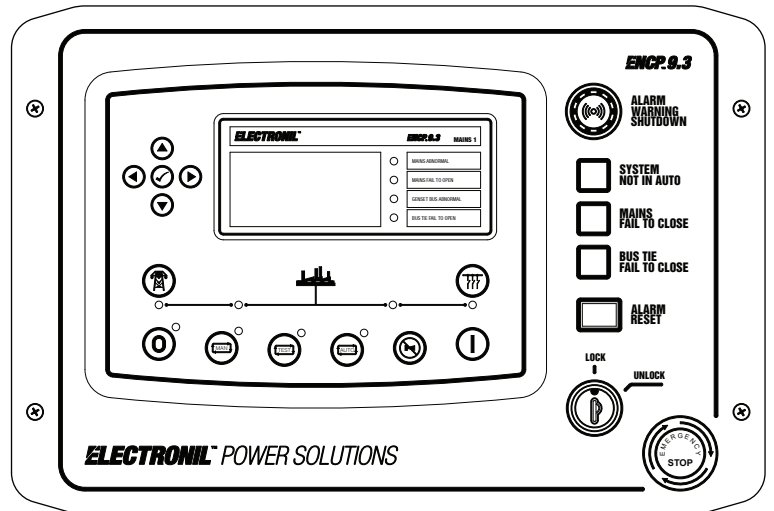www.electronil.com

ENCP™ 9.3

Image for Illustrations Purposes Only, Your Actual Product May Vary.

DESCRIPTION

The ENCP™ 9 Series is an easy to use Auto Start Generator Paralleling Controllers Suitable for use in a multi-generator synchronizing and load sharing system.

The ENCP™ 9 Series features a graphical display with an adjustable backlight as well as an advanced engine monitoring system. These features add to the sense of value and dependability that comes with your purchase of ELECTRONIL™ Products.

The ENCP™ 9.3 is an easy-to-use single or multi-mains controller with automatic transfer switch capability. Designed to synchronize single or multiple ENCP™ 9.1's and ENCP™ 9b's with single or multiple mains (utility) supplies, the ENCP™ 9.3 will automatically control the change over from mains (utility) to generator supply or run generators in parallel with the mains (utility) to provide no-break, peak lopping and peak shaving power solutions.

The system can indicate operational status and fault conditions on the LCD screen (multiple languages available), by illuminated LED, audible sounder and SMS messaging.

Comprehensive communications are also available via RS232, RS485 & Ethernet for remote PC control and monitoring, and integration into building management systems.

The comprehensive event log will record up to 250 events to facilitate maintenance.

An extensive number of fixed and flexible monitoring and protection features are included. Easy alteration of the sequences, timers and alarms can be made using the PC Configuration Software. Selected configuration is also available via the system's front panel.

With all communication ports capable of being active at the same time, the ENCP™ 9.3 is ideal for a wide variety of demanding load share applications.

OPERATOR INTERFACE

- 4-Line backlit LCD text display with 132 x 64 Pixel Ratio.
- LED Status Indicators for Modes Of Operation.
- LED for Genset Ready Indication.
- LED Indicator for Power Switching Device Status.
- Built in synchroscope with synchronizing check.
- Five Buttons Navigation Keypad.
- Deferent Modes of Operation (Stop/Manual/Auto).
- Alarm Silence/Lamp Test Buttons.
- Manual Start Button (Active in Manual Mode Only).
- Load Switching Buttons.
- External Alarm Horn with Audible/Flash Indicators.
- Not in Auto Warning Indicator.
- Mains Fail to Close Alarm Indicator.
- Bus-Tie Fail to Close Alarm Indicator.
- External Alarm Reset Pushbutton.
- Genset Lock Key Switch.
- Optional external compact five Amps Battery Charger with three Modes of Operation (Off/Float/ Boost) (for Standby Systems) integrated with fuel pump controls for each genset in the system.
- External Latching Mushroom Head Emergency Stop (Twist to Release).

CONTROLLER SPECIFICATIONS

KEY FEATURES

- Mains (utility) failure detection
- Mains (utility) power monitoring (kW, kVAr, kVA and pf)
- Comprehensive synchronizing and load sharing capabilities
- Peak lopping & shaving functionality
- Mains (utility) kW export protection
- Mains (utility) de-coupling protection
- Advanced integral PLC editor
- User configurable RS232, RS485 & Ethernet communications
- MODBUS RTU & TCP support
- User configurable MODBUS pages
- Advanced SMS control and fault messaging (addition GSM modem required)
- Data logging and trending
- 4-Line back-lit LCD text display
- Multiple display languages
- Five key menu navigation
- Front panel editing with PIN protection
- Customizable status screens
- (11) Configurable inputs
- (8) Configurable outputs
- Configurable timers and alarms
- Multiple entry scheduler
- (250) Configurable event log
- Easy access diagnostic pages
- LED and LCD alarm indication
- USB connectivity
- Backed up real time clock
- Power modes for when in parallel with the mains
- True manual breaker control when in manual mode
- Native no bus breaker support for signal ATS applications
- Separate ramp up and ramp down rates configurable via PLC
- In-built SNMP
- Configurable CAN transmit & receive

KEY LOAD SHARING FEATURES (when used with ENCP™ 9.1)

- Peak lopping/shaving
- Sequential set start
- Manual voltage/frequency adjustment
- R.O.C.O.F. and vector shift protection
- Generator load demand
- Automatic hours run balancing
- Mains (Utility) decoupling
- Mains (Utility) decoupling test mode
- Bus failure detection
- Volts and frequency matching.
- kW & kVAr load sharing

KEY BENEFITS

- Two-part solution allows up to 1.2 km between mains (utility) & bus breakers.
- Compatible in old load share systems. Contact our Technical Department for further details.
- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Ethernet communication provided built in advanced remote monitoring.
- Can be integrated into building management systems (BMS) and programmable logic control (PLC)
- License-free PC software
- Advanced Internal PLC editor allows user configurable functions to meet specific application requirements.

- Some digital inputs, analogue inputs and Digital outputs might be used for the operator interface, Consult our Technical Support Team for the Exact Number of Free Inputs and Outputs.