SGC-AF2
AMF GENERATING SET CONTROLLER















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POWER LINKS



DESCRIPTION

SGC-AF2 Automatic Mains Failure Module is a Microcontroller based degital control module, It has been very specially designed for the control of emergency and standby power system. It integrates the functions of Engine Start/Stop including the Protection for the generator set. An advanced single Chip Microcontroller has been used for and easy generator set control in the case of Mains Failure. The Module has two basic operation modes. Auto and Manual modes can be chosen via the push-buttons mounted on the front panel. SGC-AF2 AMF Module has 24 parameters settings, which can be set by the operator in order to characterize the gen-set operation.

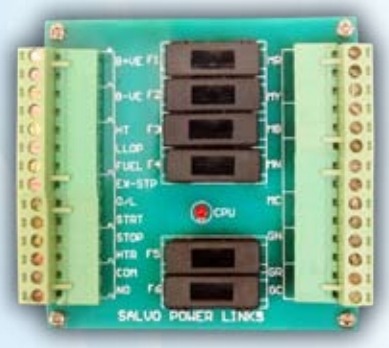
KEY OPERATIONS

SET Key: Press the set key it will display the password, if the entered password is correct then we can enter into the parameters setting mode

ACCEPT/RESET Key: Operating this key clears the latched faults and reset the unit to start from fresh. While the first pressing reset the buzzer relay and the next time reset the common fail relay

UP/DOWN Key: The setting parameters are increased and decreased using these keys. When the controller is selected in the 'Manual" mode the DOWN button is for the "Mains contactor ON and OFF" and the UP button for the "Generator

START/STOP BUTTON Key: In manual mode START and STOP button is to operate the engine manually



PERFORMANCE SPECIFICATIONS

Aux supply	:	7.0-35.0 VDC
Aux supply Interruption time	:	1 second Sustains battery dip down to zero volts for one second without requiring external capacitor bank.
External capacitor bank	:	Not required
Generator voltage	:	160-300V AC (Ph-N)
Mains voltage	:	160-300V AC (Ph-N)
Rated frequency	:	50 / 60 Hz.
Voltage measuring tolerance	:	+ / – 1%
Frequency measuring tolerance	:	+ / – 0.5%

SALIENT FEATURES

- Microcontroller based design
- Automatic start and stop
- Automatic load transfer
- Automatic engine protection
- Automatic shut down on faults namely
  - Over speed
  - Under speed
  - High temperature
  - Low lube oil pressure
  - Low fuel
  - DG volt abnormal
  - Over load
  - External stopping
- All fault and control indication
- Alphanumeric LCD to show the display

ALARMS

(Fault alarms displayed in the LCD Monitor)

- Set Fails to Start
- Low Lube Oil Pressure
- High Temperature
- Low Fuel Level
- Over Speed
- Under Speed
- Over Load
- DG Volt Abnormal
- Low Battery
- External Stop

INDICATIONS

- Mains Low
- Load on Mains
- Load on DG
- HT
- LLOP
- LFL
- Common fault

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