



DESCRIPTION

AMF 4.0 genset control unit provides the functions, required in automatic mains failure applications of gensets. It can be operated in automatic, test and manual modes.

It contains digital displays providing functions of all analog displays needed in generator panels so generator panel costs lower. Device digital displays show 3 phase mains and generator voltages, 3 phase generator currents, mains and generator frequencies, battery voltage, oil pressure (bar), engine temperature (celcius or fahrenheit) and engine hour.

Oil pressure and temperature senders can be both analog and digital type. By means of analog sensors, generator control and monitoring can be made more accurate. Oil pressure and temperature values of generator are displayed not only in digital displays but also in analog bar graphs. So these values are displayed like analog type displays.

Generator is monitored constantly and when generator or mains values exceed the limits adjusted in the parameter menu, necessary actions are taken and alarm is activated. Last ten alarm is recorded in the device memory.

All operating modes and timings can be adjusted in the parameter menu. This flexibility is provided for different kinds of generator applications.

FUNCTIONS

- Manual engine starting and stopping
- Mains monitoring, automatic start, stop and transfer switch functions
- True RMS voltage and current measurements
- Failures monitoring
- Preheating
- Manual, automatic and test modes
- Cost effective digital measurement displays
- Recording of last 10 failure
- Engine hour measurement and periodic service time warning
- Manual and automatic control of mains and generator contactors
- Analog engine temperature and oil pressure measurement capability
- Battery saving sleep mode feature
- Adjustable operating modes and timings via parameter menu
- Analog bar graph, engine temperature and oil pressure displays
- Adjustable measurement calibrations
- Remote Start
- Cost effective

AMF4.0

AUTOMATIC MAINS FAILURE UNIT

FAILURES

- Engine start/stop failure
- Under/over speed failure
- Under/over voltage failure
- Over current failure
- High temperature failure
- Charge fail warning
- Low oil pressure failure
- Periodic service time warning
- Auxiliary failure

INPUTS / OUTPUTS

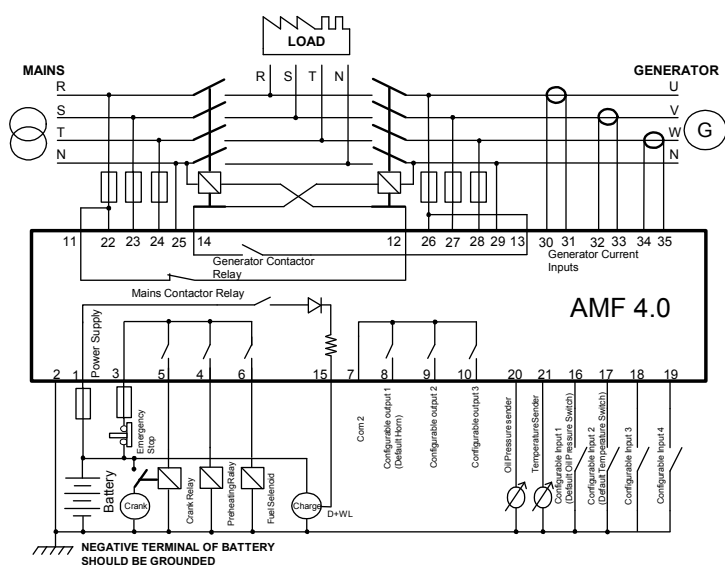
- 3 phase mains and generator voltage inputs
- 3 phase generator current inputs
- 12 or 24 V battery supply input
- Oil pressure and temperature analog inputs
- Charge alternator input
- Cranking relay output
- Preheat relay output
- Fuel solenoid relay output
- Mains contactor relay output
- Generator contactor relay output
- Alarm relay output
- 2 programmable auxiliary relay output
- 2 programmable auxiliary relay input

SPECIFICATIONS

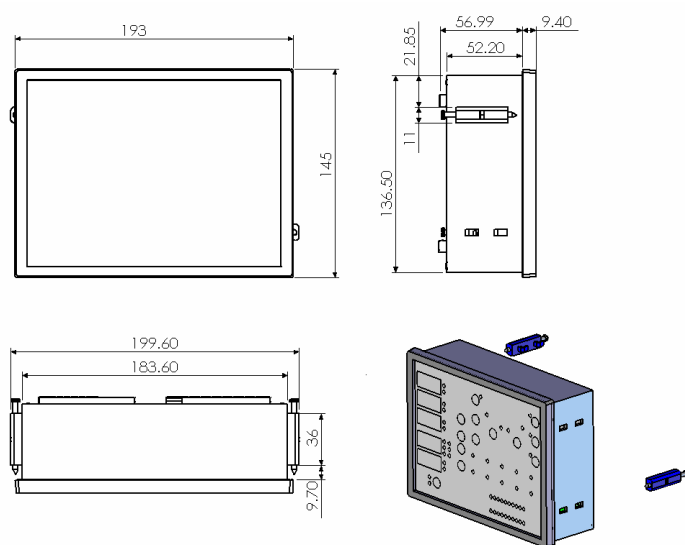
Power Supply	9-35VDC 140 mA (relays off)
Operating Temperature	-10°C / +70°C
Relative Humidity	%10-%95 non-condensing
Relay Outputs	Cranking, fuel solenoid, alarm, preheat and auxiliary relays max. 12V/24VDC 3 A, mains and generator contactor relays max. 250VAC/10 A
Voltage Measurement	20-300VAC
Frequency Measurement	1-99 Hz
Current Measurement	.../5 A current inputs (current transformer should be used)
Connection	Screw socket
Measurement Accuracy	Phase voltages : + / - %2 Frequency : + / - 0.1Hz Phase currents : + / - %2
Charge Excitation Current	80mA @ 12VDC 160mA@ 24VDC
Housing	High temperature proof PPO GF %20
Protection Class	IP 52 (Front side)
Weight	600 gr. (approx.)
Dimensions (WxHxD)	192x144x62 mm
Panel Cut Out	186x138 mm
Mounting Installation	Front panel mounted with rear metal screw fixings Max. allowable mounting panel thickness 3mm

CONNECTIONS

AMF 4.0 CONNECTION DIAGRAM



DIMENSIONS AND MOUNTING



Dimensions in mm