

AUTOMATIC TRANSFER SWITCH

Protection - Control - Metering - Load Transfer

**EAOM-9
EAOM-9F**



EAOM-9F



EAOM-9

General Specifications:

| | | |
|-------------------------------------|--|--|
| Housing & Mounting | 144 x 204 x 37 mm 96 x 96 x 115 mm (excl. 13mm clips) for EAOM-9 | |
| Protection | NEMA4X (IP65 front, IP20 rear) | |
| Operating / Storage temp. | -25°C to +70°C / -40°C to +85°C | |
| Operating / Storage humidity | 90% max. non condensing | |
| Supply Voltage | 8 to 32Vdc | |
| Supply Voltage Measurement | 8.0 to 32.0 Vdc Accuracy: 1%, Resolution : 0.1Vdc | |
| Mains Voltage Measurement | 3P 4W, 35 to 300 Vac L-N Accuracy: 1% FS, Resolution : 1Vac | |
| Generator Volt. Measurement | 1P, 35 to 300 Vac L-N Accuracy: 1% FS, Resolution : 1Vac | |
| Cranking Dropouts | Battery voltage can be 0Vdc for max. 100 ms during cranking (battery voltage should be at least nominal voltage before cranking) | |
| Generator Speed | Measurement from alternator frequency or magnetic pickup | |
| Alternator Frequency Range | 10 - 110 Hz @ 35-300VAC L-N | |
| Magnetic Pickup Freq. Range | 35 Hz - 10 kHz @ 3-35 Volts peak | |
| Communication Interface | RS-232 serial communication | |
| Inputs | Emergency Stop (NC) Oil pressure switch (NC) Temperature switch (NO) | Over current (NO) 2 x configurable (NO) Remote inhibit (NO) |
| Outputs | Start, Fuel, Alarm, 1xConfigurable, Mains Contactor, Generator | |
| LED Display 4 digits, 7 segments | Mains volts phase-to-phase & phase-to-neutral Alternator volts & frequency Engine RPM | Battery volts Engine run time Failure info Program parameters |
| Failure Indicators | Engine start Engine high temperature Engine over speed Low oil pressure Low battery volts Emergency stop | Charging Over current Generator voltage 2 x configurable Maintenance due |
| Status Indicators | Manual/Auto/Test/Off Engine start/stop/running Mains available Program mode | Generator contactor Generator is ready for the load Mains contactor Alarm |
| Information Alarms | Low battery voltage Emergency stop | Maintenance due |

The EAOM-9 and EAOM-9F controller offer automatic starting, control, protection and load transfer of generator sets. On mains failure, the controller automatically transfers the load to the generator and co-ordinates return to mains and controlled generator shutdown when the mains supply is restored.

The EAOM-9S and 9F also display voltage and numerous other parameters.

The technology used by Z-TRAUQ INC. displays exact measurement.

Use the PC based software to communicate directly or over modem.

Features:

| | |
|---------------------------------|-------------------------------|
| Automatic engine start/stop | Push-button operation |
| Automatic load transfer | Two user configurable inputs |
| Automatic shutdown on fault | One configurable relay output |
| LED status and fault indication | Fully programmable |
| Man - Auto - Test modes | RS232 |

Failure Monitoring:

| | |
|--------------------------|--------------------------------|
| Mains supply voltage | Low battery voltage |
| Oil pressure | Alternator voltage & frequency |
| Engine start | Maintenance due |
| Charge generator voltage | Emergency stop |
| Engine speed | Engine temperature |
| Over current | |

Controls:

| | |
|---------------------------|--------------------------------------|
| Automatic generator start | Mains contactor |
| Automatic load transfer | Generator contactor |
| Preheating | Engine fuel supply or engine stopped |
| Alarm silence | Return to mains |
| Alternator frequency | Engine RPM |
| Alternator volts | Engine run time |
| Battery voltage | Program parameters |
| Mains voltage (3 phase) | Failure information |

TRANSFER

CONTROL

MONITOR

PROTECT

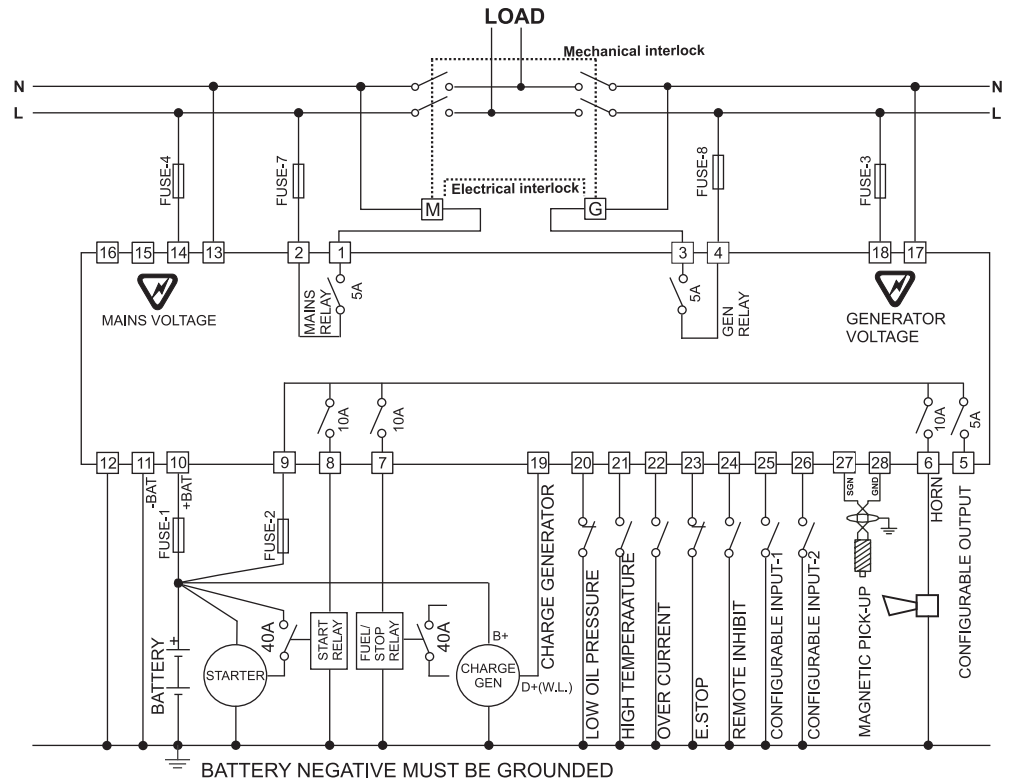
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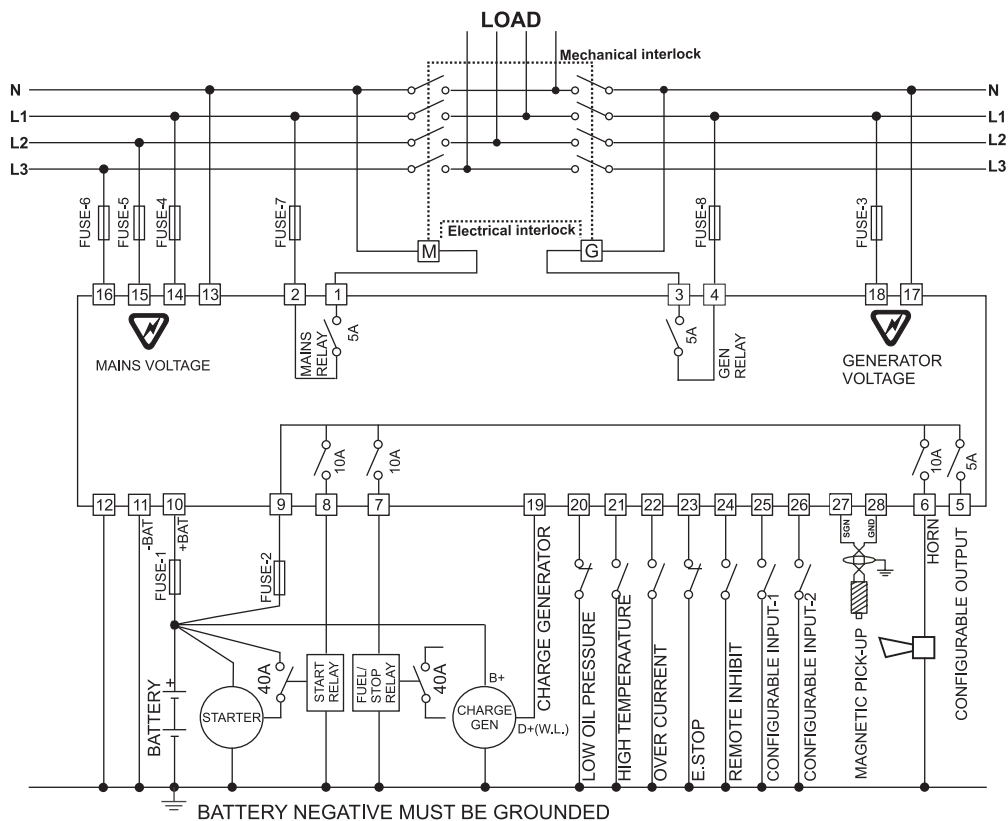
EAOM 9

Connection Diagrams
Actual diagrams may differ. Always refer to the Owner's Manual for the wiring instructions of your particular controller.

Single Phase Connections



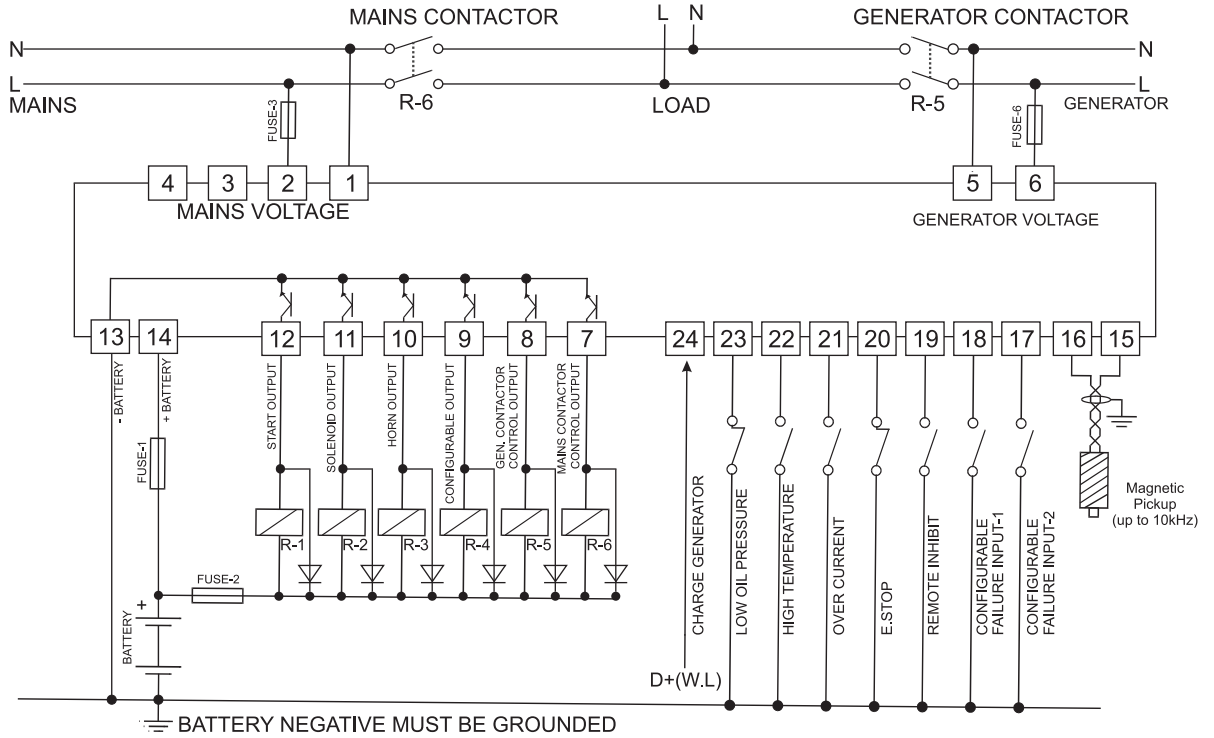
Three Phase Connections



EAOM 9F

Connection Diagrams
Actual diagrams may differ. Always refer to the Owner's Manual for the wiring instructions of your particular controller.

Single Phase Connections



Three Phase Connections

