

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

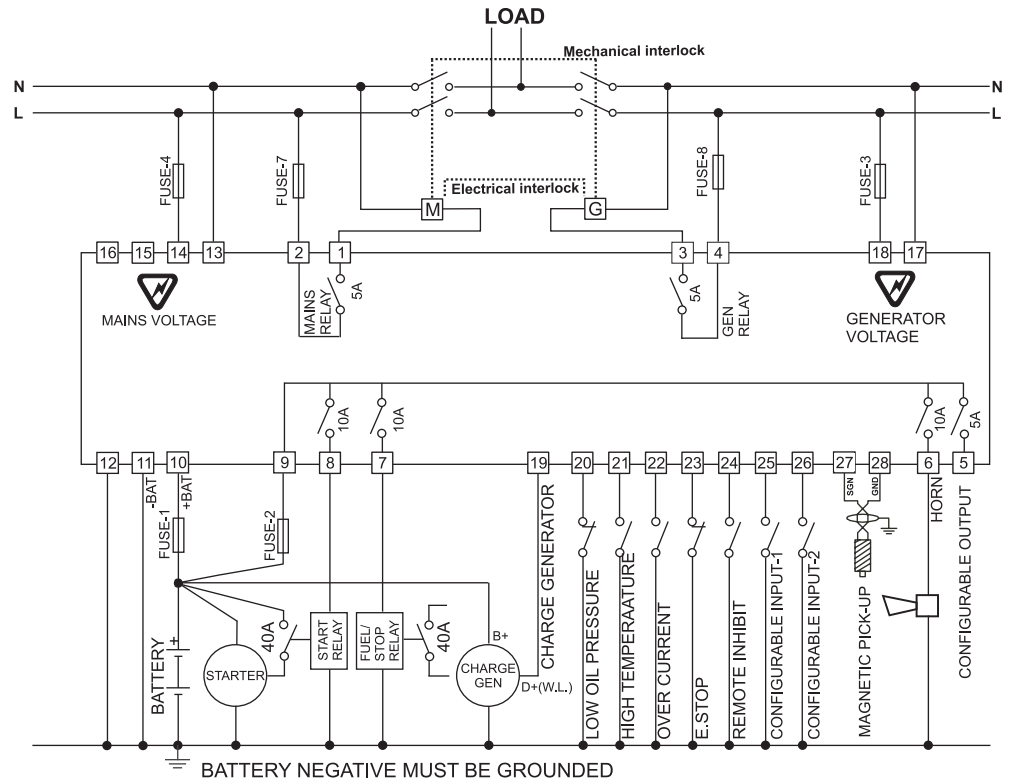
MONITOR

PROTECT

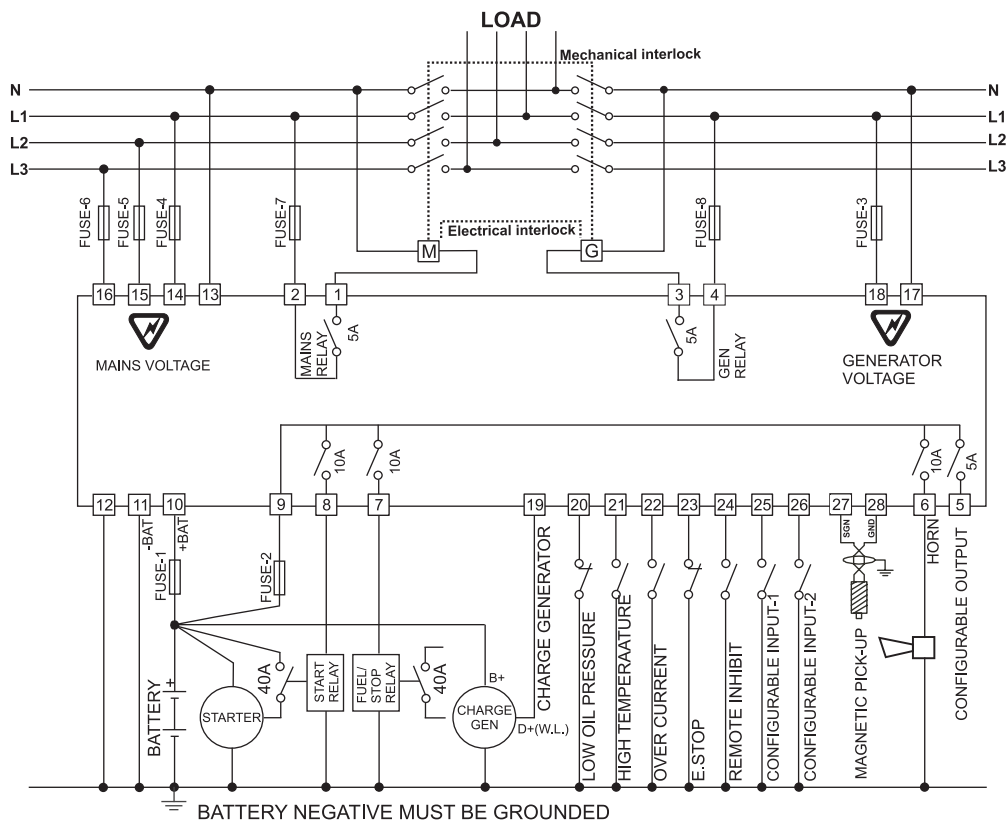
EAOM 9

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

Single Phase Connections



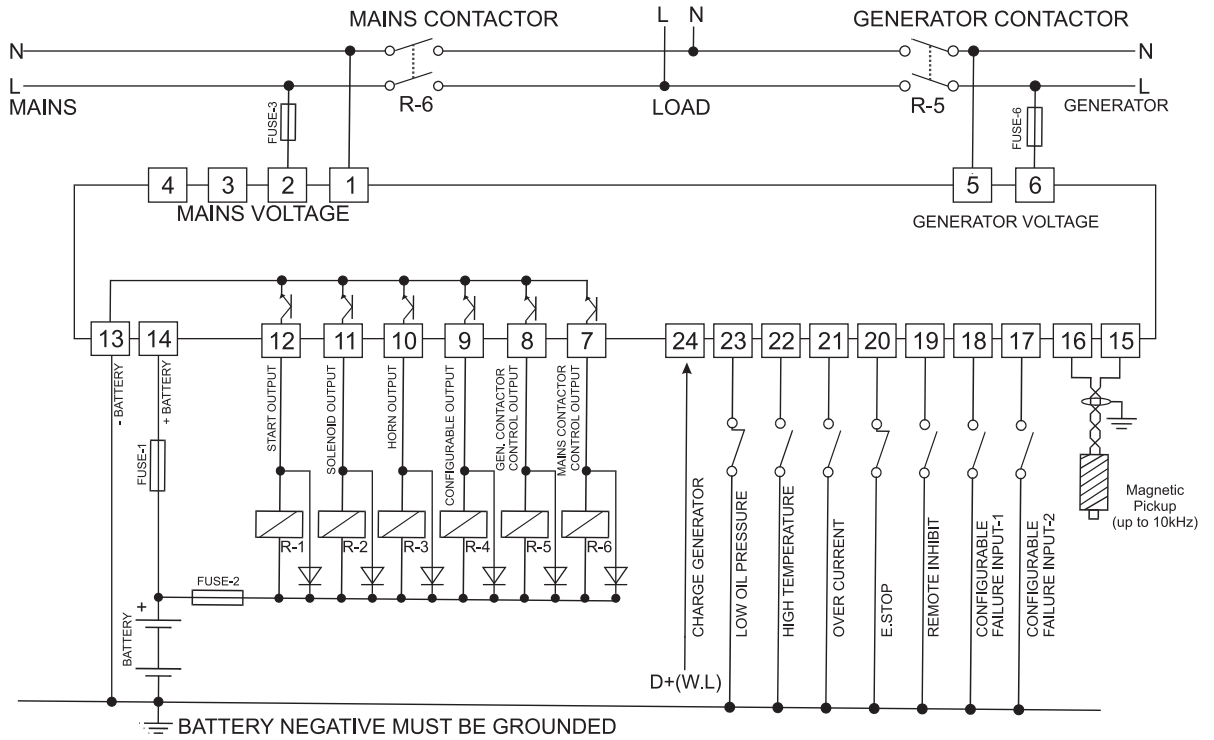
Three Phase Connections



EAOM 9F

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Single Phase Connections



Three Phase Connections

