



The S-3A control panel provides: Complete automation and safety monitoring of a Northern Lights diesel generator.

The S-3A controls:

The starter and fuel thus completely taking the operator out of the picture. A built in speed switch controls both starter disengagement and overspeed protection.

The S-3A monitors and displays:

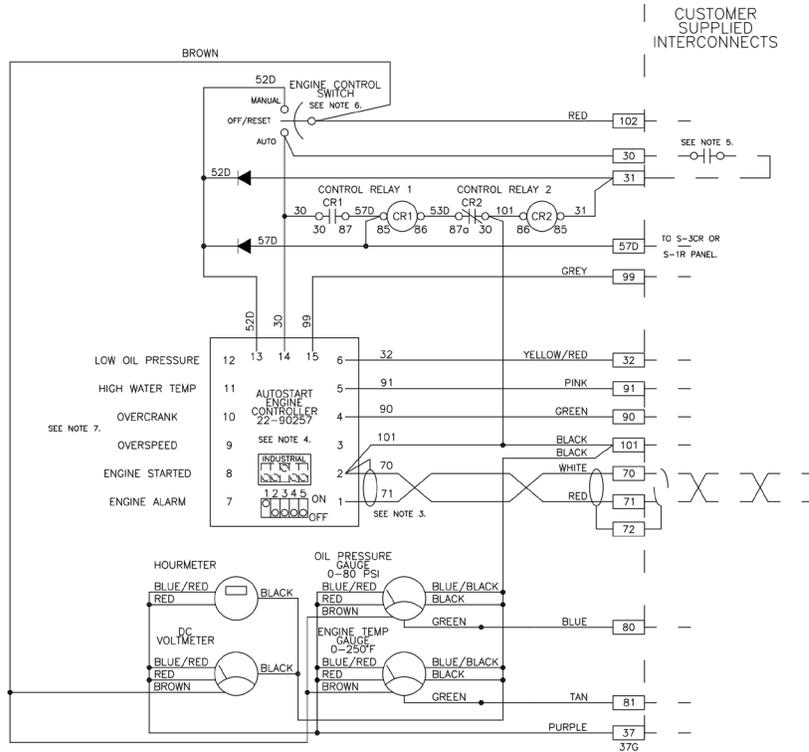
- Engine hours
- Engine oil pressure
- Battery voltage
- Engine water temperature

Features:

- Loss of Magnetic Pickup detection during both cranking and running
- Single or Multi-crank modes are field adjustable
- Built in speed switch
- High water temp/ Low oil pressure shutdown
- Low oil pressure and high water temp override during cranking
- Wide temperature range -40°C to +85°C, Wide ambient temperature range -30°C to +85°C
- Epoxy encapsulated module for excellent field reliability
- Optional alarm lights/alarm outputs:
 - Overcrank
 - Overspeed
 - High water temperature
 - Low oil pressure

The S-3A control panel automatically cranks, starts and monitors an engine for Overcrank, Overspeed, High Water Temperature and Low Oil Pressure. Any crank timing sequence is accomplished by using the multiple crank mode in conjunction with the timer adjustment. A built in speed switch uses a magnetic pickup to monitor engine speed for crank disconnect and overspeed. The bypass timer/logic assures Low Oil Pressure and High Water Temp override during the crank period and an additional adjustable period after crank disconnect. The S-3A expands to as many faults as required by using the Engine Alarm Input/Output. It also monitors the Magnetic Pickup signal for problems during both cranking and running. If a problem is detected the engine will shutdown and the Overcrank and Overspeed LED's will both turn on.

SAMPLE APPLICATION

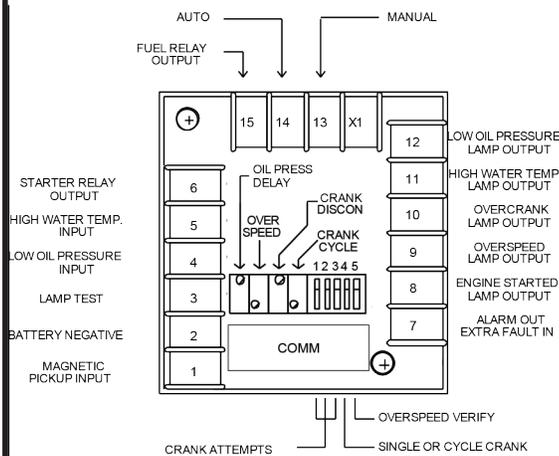


SPECIFICATIONS

Voltage Range: 9 to 28 Volts
Starter & Fuel Output: 5 amps max

Magnetic Pickup: 250-8500 Hertz
Annunciator Lamp Outputs (Total): 0.8 amp max

S-3A TERMINAL OUT



PHYSICAL DIMENSIONS

