

## Schaffner NSG200D System Interference Simulator

The circuit elements that are used for all types of interference simulation are placed in the main frame. These elements are the different mains filters, line switches and fuses. In operation the main frame must be connected to the line voltage (110/120 Volt, 60 c/s) through the line cable. This line voltage will operate the electronic circuits and - if the main switch is on position "on" - it will appear at the terminals L, N and Gnd on the front panel of the instrument with the proper interference added to it.

### NSG 200D Mainframe (Pulse Coupler)

- Operation with line voltage
  - \* Max rated voltage: 120V / 60 c/s
  - \* Max rated current: 16A
- Operation with external voltage
  - \* Max rated voltage (=): 400 volts
  - \* Max rated voltage (~): 250 volts (RMS)
  - \* Max rated current (50/60 c/s and dc): 16A
  - \* Max rated current (400 c/s): 6A

### Schaffner NSG200D System Plug-Ins:

#### Schaffner NSG 222A Fast Impulse Plug-In

Produces fast interference pulses typical to mechanical devices such as relays, switches etc. Pulse amplitude 50 to 2500V, rise time 5 to 10ns, pulse duration unload 100ns loaded 80ns into 50Ω.

#### Schaffner NSG 223A High Energy Plug-In

Produces interference pulses such as inductive or capacitance as produced by lightning. Pulse amplitude 1000V into 50Ω, rise time 300ns, 500ns through 1.2ms, pulse duration 50μs.

#### Schaffner NSG 224A Interference Simulator

For use in the NSG 200 system to simulate the kind of interference frequently met in connection with mechanical switching of inductive motors. Interference pulses generated are in conformance with 4517/79 COM(78)766 standards proposed by the EEC.