

## Novaris MPU Surge Protectors

Surges and transients appearing on signal lines pose a serious threat to the reliability of any electronic signaling system. Damage caused by the effects of lightning and switching transients frequently leads to malfunction or total shutdown of the system as well as large repair costs. In critical applications such as railway signaling, the consequences of such damage can be catastrophic.

Novaris' range of MPU signal line protectors has been developed in consultation with signaling engineers, project managers and maintenance providers of SSI and VPI signaling equipment, in Australia and overseas. Each protector is designed to provide the highest level of surge immunity for connected equipment with minimum impact on normal system operation. The circuits are configured so that any component failure, within or external to the protector, will not compromise the operational safety of the signaling system.

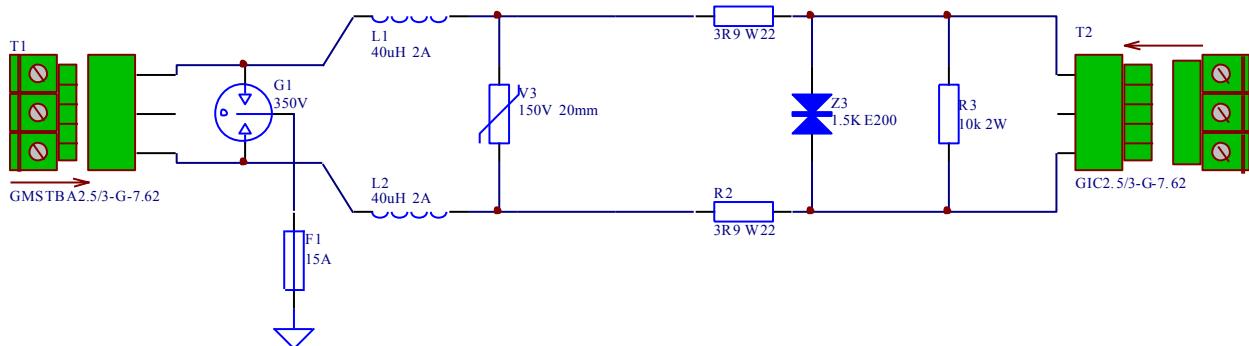
There are five main protection circuit configurations available, designated in the following manner:

Catalogue Number: SLDx-MPUy where,  
X = Number of signal pairs to be protected  
Y = Circuit configuration

Standard circuit configurations are shown below. Variations to existing designs may be possible – please contact Novaris with your requirements.

## Features

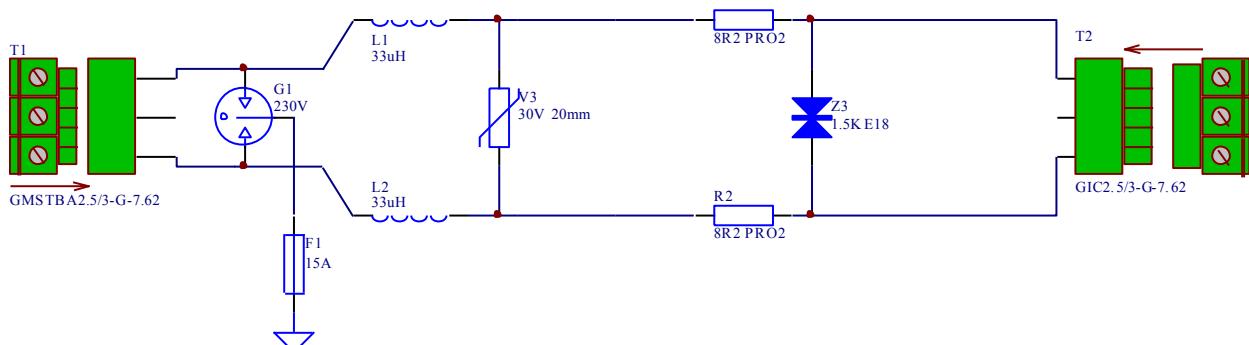
- Safe all-metal enclosure
- Compact physical dimensions
- Din-rail, G-rail or panel mounting (specify when ordering)
- Indicating, field-replaceable fuses
- Polarized input and output connectors

**SLD1-MPU4**

Surge handling (8/20 $\mu$ s impulse): 10kA, each line to common.

Operating voltage: 110-140 volts, DC or AC.

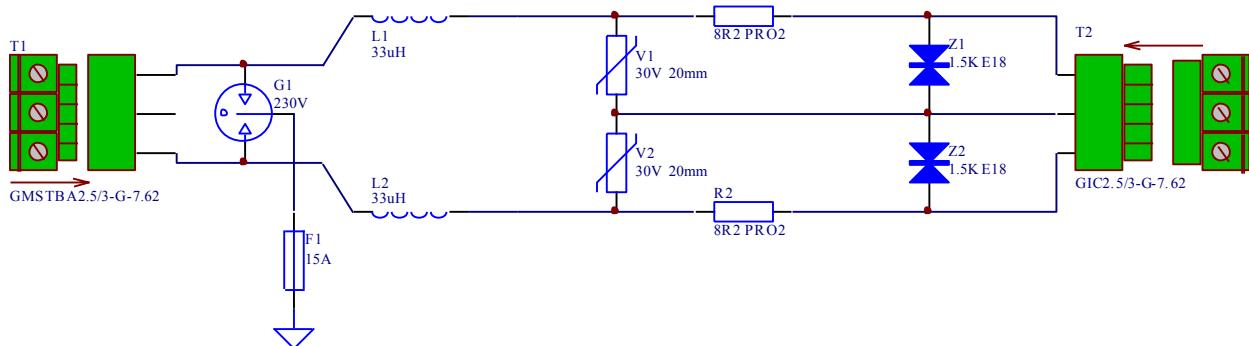
Maximum load: 750mA.

**SLD1-MPU5**

Surge handling (8/20 $\mu$ s impulse): 10kA, each line to common.

Operating voltage: Up to 12Vac, 18Vdc.

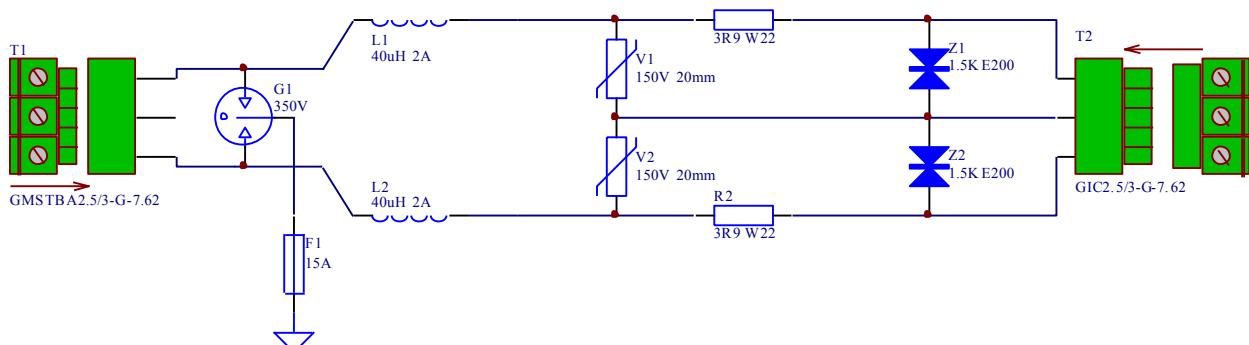
Maximum load: 350mA.

**SLD1-MPU6**

Surge handling (8/20 $\mu$ s impulse): 10kA, each line to common.

Operating voltage: Up to 12Vac, 18Vdc.

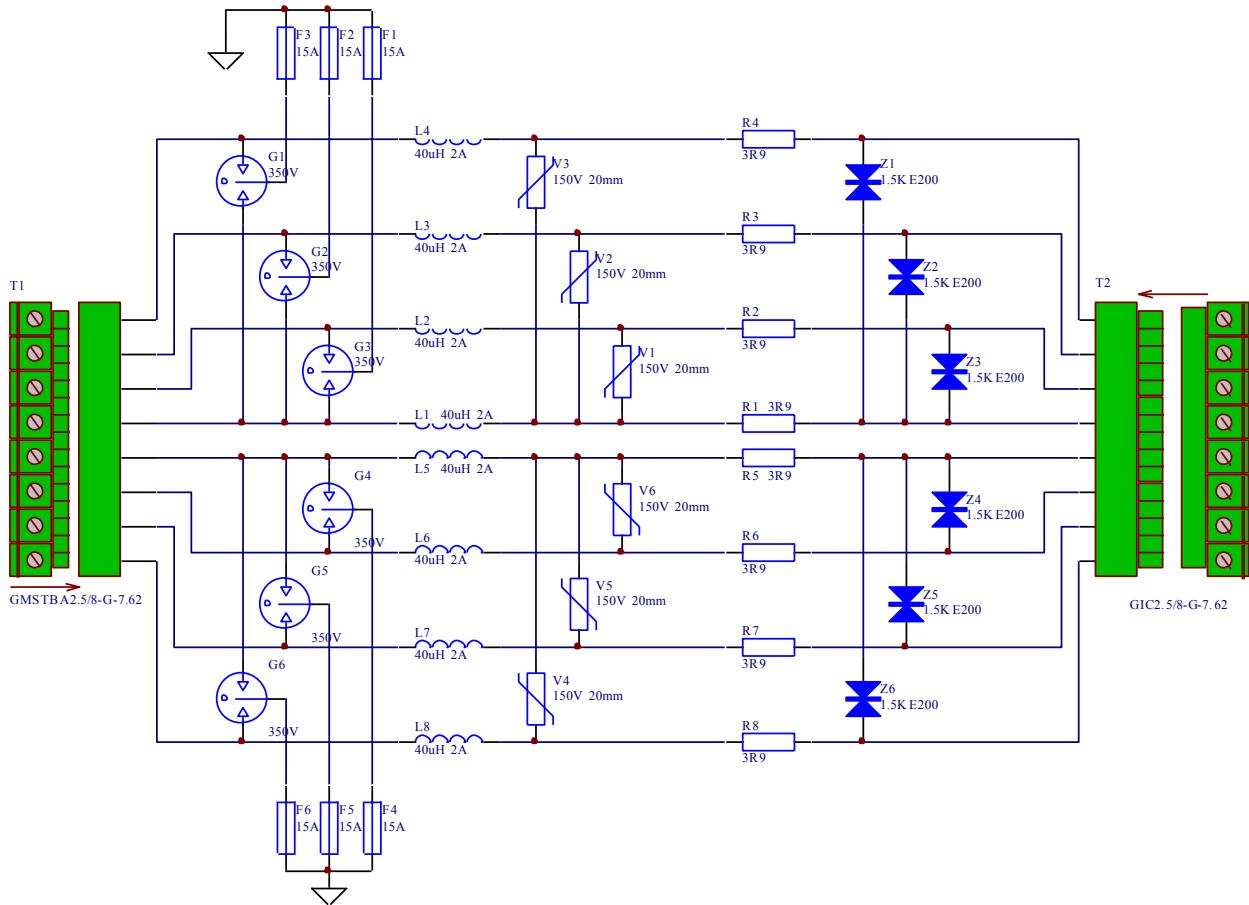
Maximum load: 350mA.

**SLD1-MPU8**

Surge handling (8/20 $\mu$ s impulse): 10kA, each line to common.

Operating voltage: 110-140V.

Maximum load: 750mA.

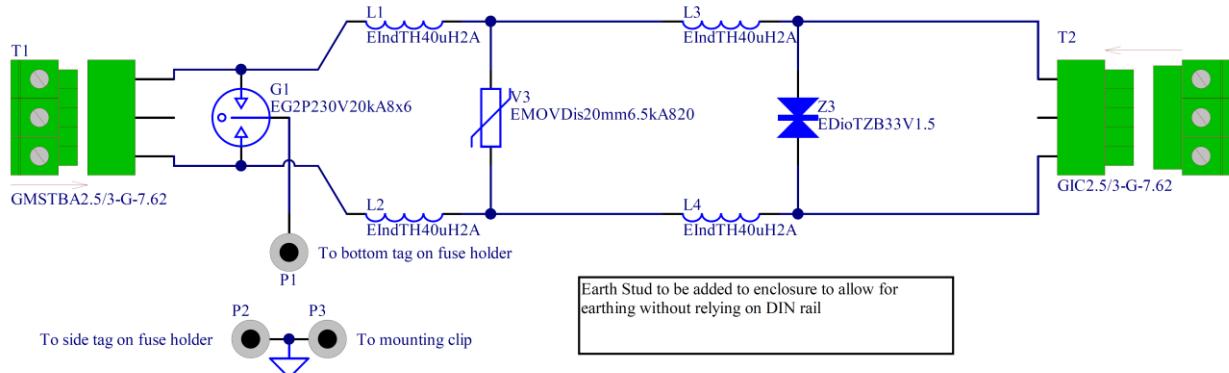
**SLD4-MPU7**

Surge handling (8/20 $\mu$ s impulse): 10kA, each line to common.

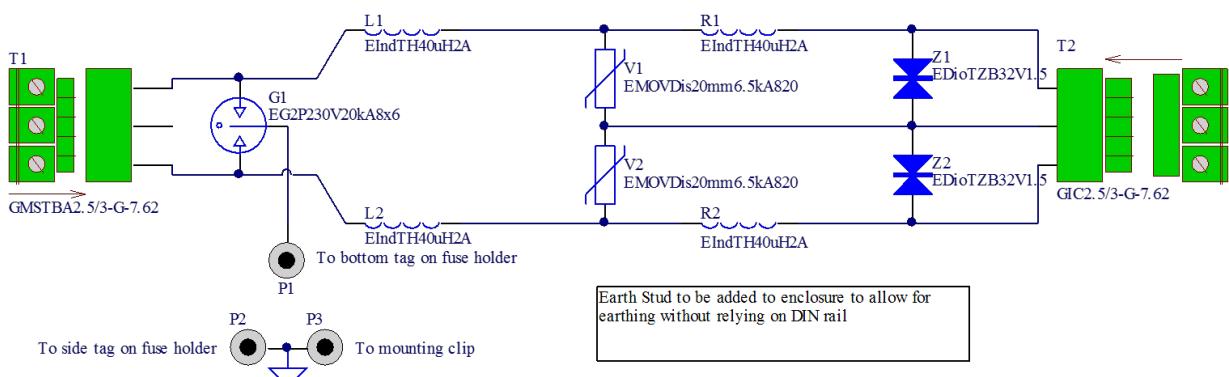
Operating voltage: 110-140V.

Maximum load: 750mA.

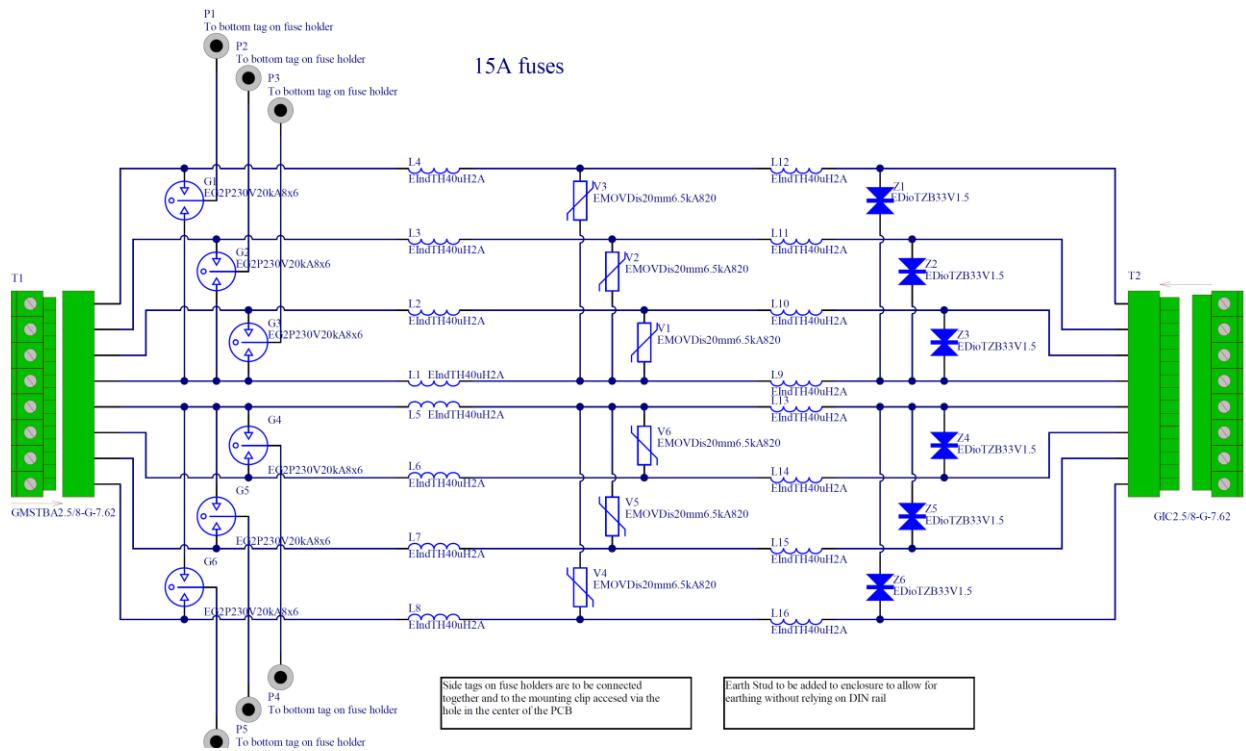
## SLD1-MPU9



## SLD1-MPU11



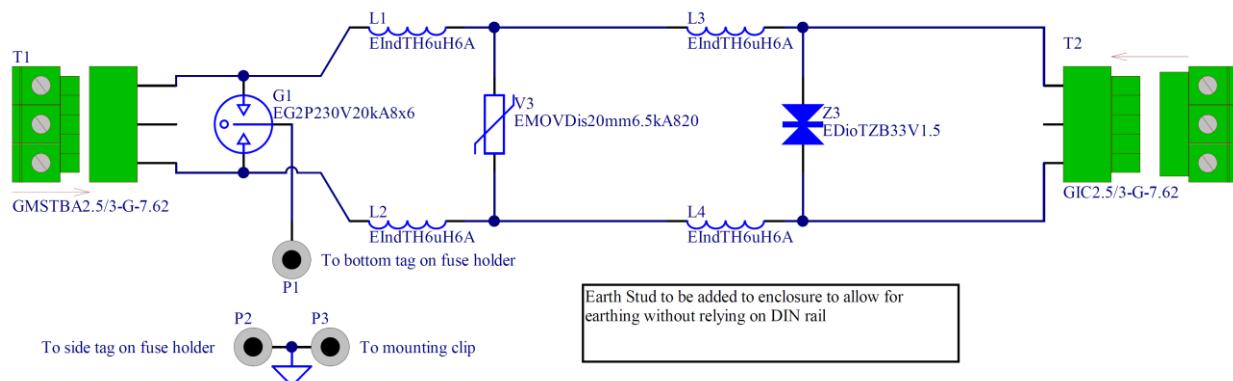
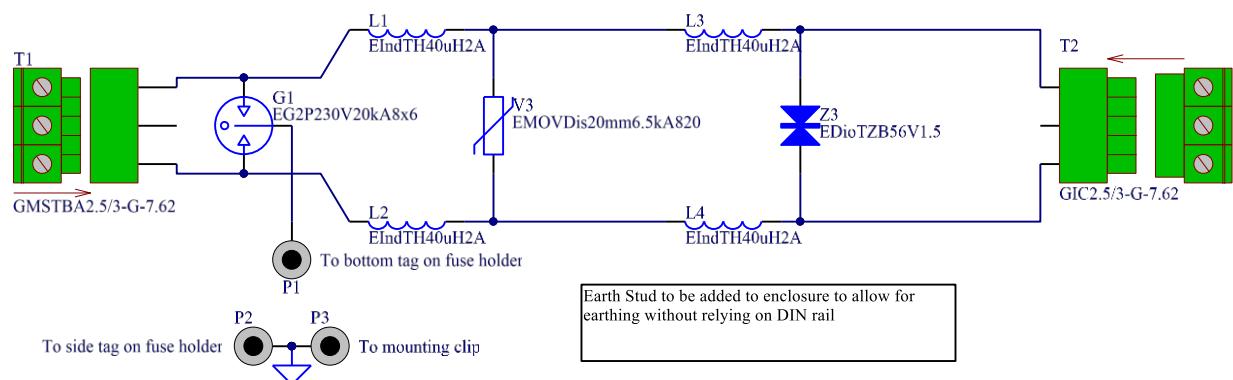
## SLD4-MPU10

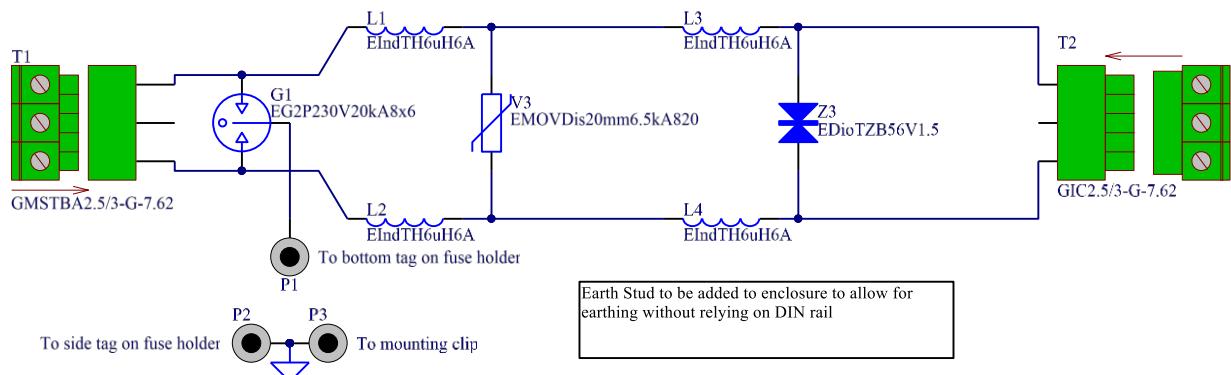


Surge handling (8/20μs impulse): 10kA, each line to common.

Operating voltage: Up to 22Vac, 32Vdc.

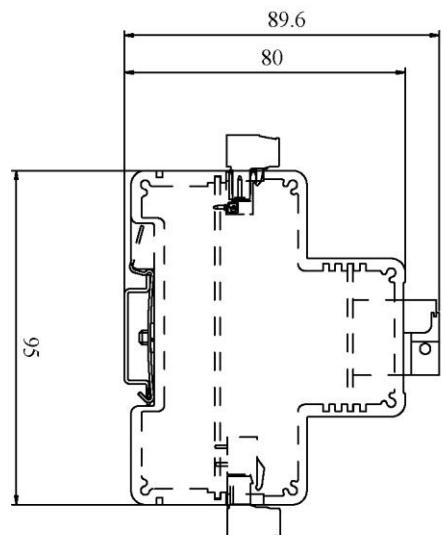
Maximum load: 2A.

**SLD1-MPU12****SLD1-MPU14**

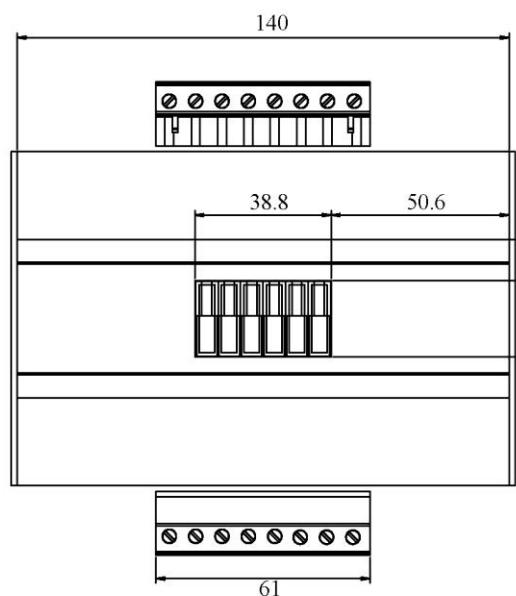
**SLD1-MPU15**

Earth Stud to be added to enclosure to allow for earthing without relying on DIN rail

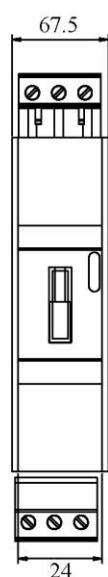
## SLDx-MPUy Dimensions



Side View



MPU7



MPU4 thru 8

