

# Eaton SPD50NGI

Class II/Cat C & B, Neutral-Earth Surge Protector



## Applications:

- Equipotential Coupler
- Neutral-Earth Surge Arrestor
- Sub-boards remote from MEN point

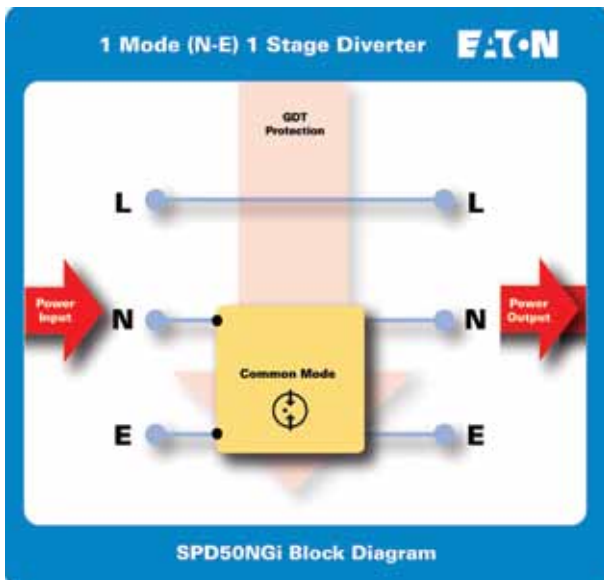
## Key Features:

- Compact Neutral-Earth Protection Solution
- Surge current rating from 50kA - 100kA In, 70kA - 150kA Imax
- Compatible with most switchboards
- Quick & simple installation

## Neutral-Earth or Earth-Earth Equipotential Clamp

The SPD50NGI is designed for use as an equipotential coupler between separately-grounded systems to provide protection against surge transients. Under normal conditions the coupler does not conduct, preventing earth loops & inter-circuit coupling. Under surge conditions, effectively interconnecting the circuits for the duration of the surge.

The SPD50NGI is an ideal companion for the Quickmov™ surge diverter for surge protection in distribution boards remote from an M.E.N point. The SPD50NGI equipotential coupler (gas arrestor) is connected between the neutral & earth bar for N-E surge protection. The SPD50NGI is supplied as an "in-line" cable assembly for ease of installation.



## Surge Category

The SPD50NGI is suitable for use in category locations:

### Class II/Cat C

(6kV/15kA) Point of Entry/  
Service Entrance

### Class II/Cat B

(6kV/3kA) Major sub mains &  
short final sub circuits

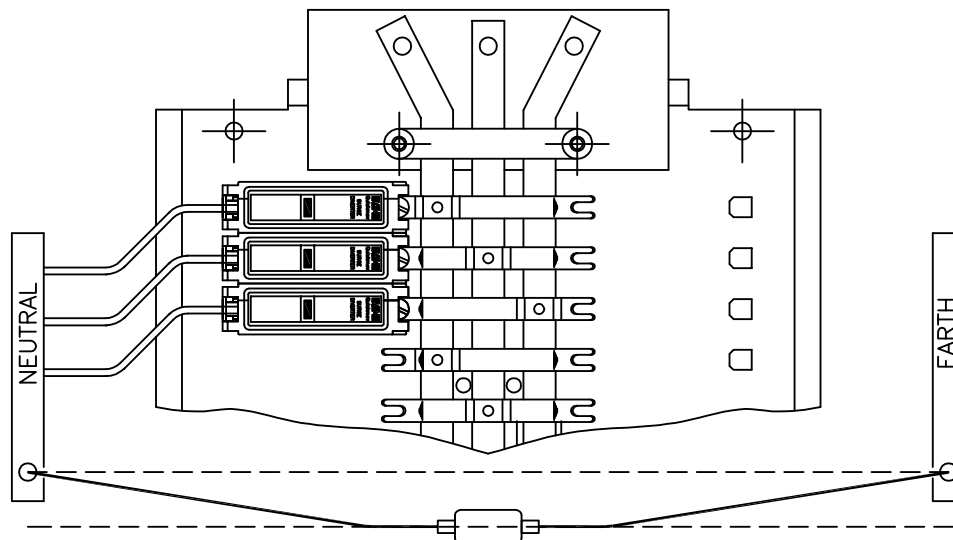
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## Specifications

Technical Specifications	SPD50NGI
Protection Mode	Single Mode - connected Neutral-Earth or between separately earthed systems
Service type (N-E protection only)	TNS or similar (neutral must be grounded either locally or remotely)
System voltage - Un	Applicable to any common LV system voltage
Test Classification	Class I & II (IEC 61643-1) Cat B & C ANSI C62.41
External disconnecter requirements	None
DC breakdown voltage (1mA)	230V +/-20%
Firing voltage	800V +/-20%
Operating current	<1mA
Surge current rating In (20 times)	50kA (8/20us)
Surge current rating Ismax (2 times)	70kA (8/20us)
Residual voltage with full cable	<1.3kV (3kA, 8/20uS)
Residual voltage with minimal cable (100mm total)	<1.3kV (15kA, 8/20uS) <2.5kV (50kA, 8/20uS)
Connections	6mm <sup>2</sup> cable (black & green/yellow) for connection
Mounting	None required for fixed installation (suspended by cable)
Dimensions & Weight	60 x 15 x 15 mm (not including cables), 70g

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## Connection Diagram



Sub-board with remote MEN link connection

**Important:** Before installing the device, please read & follow the installation & operating instructions.