

Eaton® SPDI Series



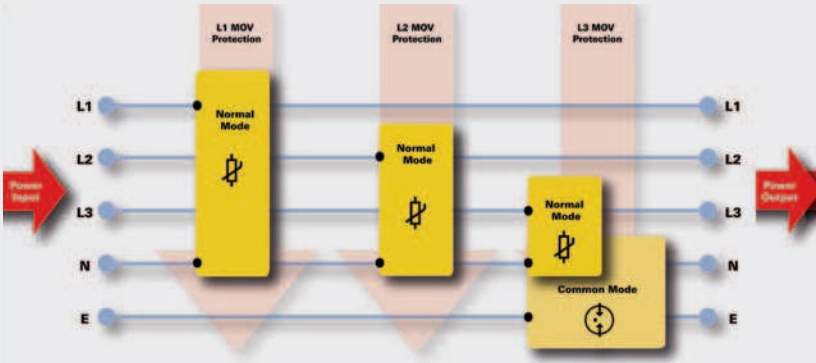
Applications

- Ideal for Point of Entry or Sub-board Protection
- Telecommunication Systems & Rectifiers
- Process & Control Systems
- Computer Systems
- Medical Systems
- All Sensitive Electronic Equipment

Class II/Cat C & B

The SPD360Ni is designed to protect 3-phase power systems against damage from surges & spikes caused by lightning & other electrical sources. The unit is intended for point-of-entry or sub-board protection in low to medium exposed locations adjacent to the M.E.N. link. For protection in locations remote from the M.E.N. link use a SPD360Gi Gas Arrestor model.

SPD360Ni Block Diagram 3 Mode 1 Stage Surge Diverter



Surge Category

The SPDI is suitable for use in category locations:

Class II/Cat D

(6kV/30kA) Point of Entry, High Exposure (SPD150i Only)

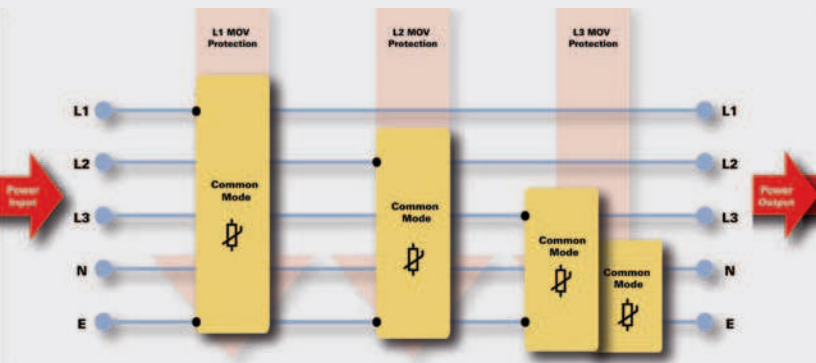
Class II/Cat C

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

Class II/Cat B

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

SPD360Gi Block Diagram 1 Mode (LN) 1 Stage Diverter



Eaton® SPDI Series

| Technical Specifications | SPD150i | SPD360Ni | SPD360Gi |
|---|--|-----------------------------------|--|
| Input voltage | 220-277VAC (380-480V) 40-70 Hz | 220-277VAC (380-480V) 40-70 Hz | 220-300VAC (380-520V) 40-70 Hz |
| Maximum continuous operating voltage (MCOV) | 320VAC | | 350VAC |
| Temporary overvoltage - TOV | 350VAC, 15 mins | | 420VAC, 15 mins |
| Service Type | TN-C & TN C-S (3-wire with grounded neutral) | | TN-S & TT (3-wire with grounded neutral) |
| Test Classification (IEC61643-1) | Class II | | |
| Initial clamp voltage | 560V | | 680V |
| Maximum rated surge current - I _{max} 8/20us | 120kA | 60kA / Phase | |
| Nominal surge current - I _n 8/20us | 120kA | 30kA / Phase | |
| Residual voltage (V _{pl}) @ 3kA, 8/20us | 1.0kV | ≤1.2kV L-N, 900V N-E | ≤1.2kV L-N, 1.4kV N-E |
| Residual voltage (V _{pl}) @ 40kA, 8/20us | 1.65kV | ≤2.1kV L-N, 1.46kV N-E | ≤2.1kV L-N, 2.45kV N-E |
| Energy absorption (2ms) | 2130 Joules | | 3640 Joules |
| Nominal surge lifetime (I _n) | 60kA (8/20us), 20 times | 30kA (8/20us), 20 times | |
| Recommended maximum over-current protection | gG/gL HRC fuses, 1 per phase, 125A maximum | | |
| Terminations | Power terminals 16mm ² , Alarm terminals 1.5mm ² | | |
| Alarms/Indicators | 5 indicators, dry contact alarm relay - 250VAC/32VDC, 5A | | |
| Design standards | IEC61643-1, IEC610006, ANSI/EEE C62.41, AS1768-2007, AS3100, CE mark | | |
| Dimensions & Weight | (DIN43880) 70 x 68 x 90 mm (WxDxH), 200g | | |

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Connection Diagrams

