



Series Filter with Shunt Surge Diverter, 1 Phase 3-25A, 25kA Primary

The CSFI is designed for mounting in distribution boards to provide secondary protection against power surges caused by external sources such as lightning strikes & substation switching as well as providing a measure of protection from surge events generated on the secondary side of the filter. An ideal device for Category B locations.

The CSFI is a 3-stage protection unit utilising primary & secondary MOV protection in conjunction with a Low-Q LC filter. The unit provides filtering of the line harmonics, noise & RF transmitters with a cut-off frequency of <10kHz & a nominal attenuation of >60dB.

All CSFI units are provided with indicators showing power & protection status. Alarms are indicated on the front panel of the unit. The alarm function provides a summary alarm output for protection degradation as well as power failure. The protection alarm is configured to partial protection failure. The summary alarm relay contacts provide remote signalling to other equipment.

Applications:

- Secondary power circuits, Sub-boards
- UPS Systems & Rectifiers
- Telecommunications Systems
- Process & Control Systems, Homes & Units
- Computer Systems & Medical Systems
- All sensitive Electronic Equipment

Key Features:

- Surge suppression & filtering in a single package
- Modular design
- Enclosed in IP 20 ABS plastic housing
- DIN rail mountable (4 pole wide)
- Protection Fail Alarm Relay
- 3 mode, 3 Stage Protection
- 12 Month Warranty

Surge Category

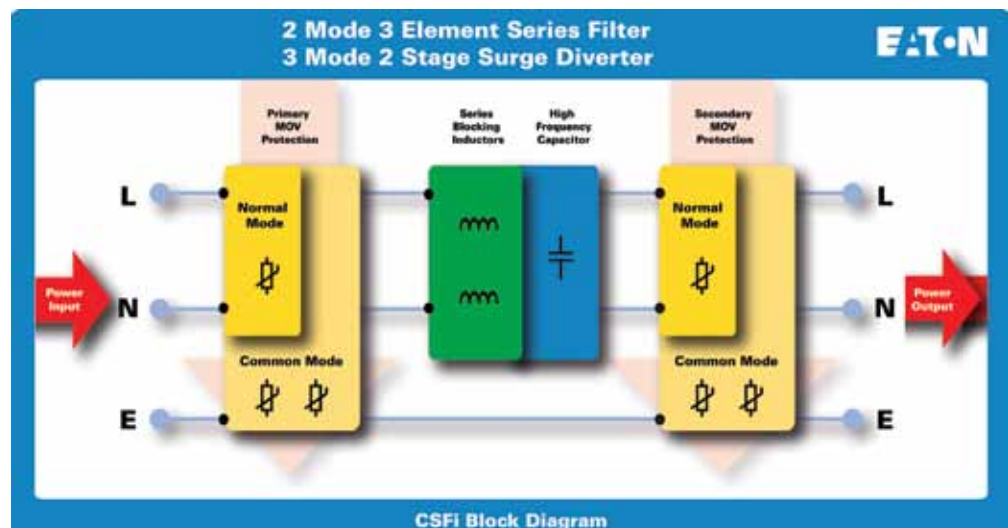
The CSFI is suitable for use in category locations:

Class II/Cat B

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

Class II/Cat A

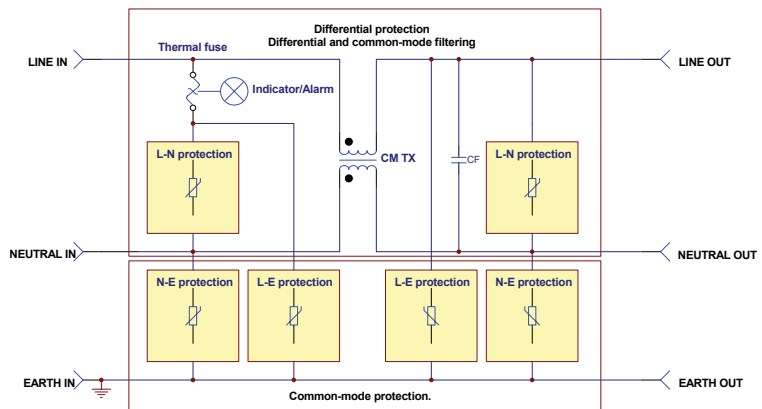
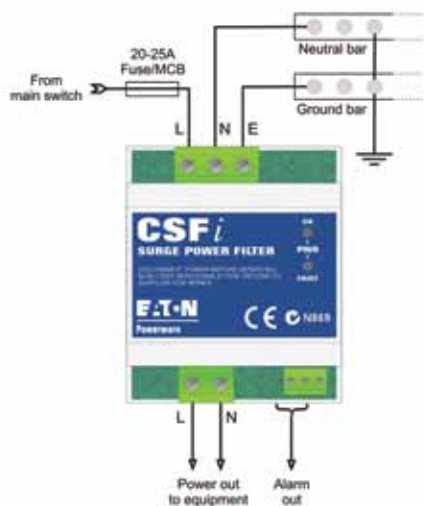
(6kV/200A) Long final sub circuits & power outlets



| Technical Specifications | CSFI |
|--|--|
| Input voltage | 200-250VAC 1 Phase |
| Service type | TT, TN, TN C-S or any single-phase system with a grounded neutral. This unit must not be connected to an ungrounded system |
| Test Classification | Class III (IEC 61643-1), Category A & B (ANSI/IEEE C62.41) |
| Energy Absorption rating - per mode (joules) | Primary protection L-N = 370J Primary common mode protection L-E & N-E = 480J Secondary protection L-N = 225J Secondary common mode protection L-E & N-E = 480J Aggregate rating = 1555J |
| Current rating - continuous | 3 - 25A |
| Recommended max. overcurrent protection | 25A (C curve MCB 25A) |
| Protection modes | Line-Neutral, Line-Earth, Neutral-Earth |
| In 8/20us (Line-Neutral) Nominal surge life | 10kA x 20 hits |
| In 8/20us (Line-Earth) Nominal surge life | 3kA x 20 hits |
| In 8/20us (Neutral-Earth) Nominal surge life | 3kA x 20 hits |
| Ismax 8/20us (Line-Neutral) Max surge level | 25kA |
| Ismax 8/20us (Line-Earth) Max surge level | 10kA |
| Ismax 8/20us (Neutral-Earth) Max surge level | 10kA |
| Filter attenuation | 62dB above 1MHz |
| Internal protection (fusing) | All surge diverter connections are fused via HRC fuses to IEC269-2-1 |
| Terminations | 6mm ² PCB Mounted Terminals |
| Alarms/indicators | 2 LED display, Power OK & Protection OK LEDs, Dry contact alarm relay output – 250Vac/32Vdc, 5A, 5kV isolation, Alarm under-voltage cutoff 180Vac |
| Location Category | Indoor |
| Enclosure rating | IP20 |
| Design Standards: | IEC61643-1, IEC610006-1,2,3,4 ANSI/IEEE C62.41 Cat B,C,D,E AS1768-2007 Cat B,C,D,E AS3000,AS3100, CE mark |
| Dimensions & Weight | 70 x 68 x 90 mm (W x D X H), 200g |
| Environment | -10 to 65°C, 10 to 95%RH (non-condensing) |

Due to continual product improvement specifications are subject to change without notice. Copyright 2010 Eaton Corporation.

Connection & Line Diagram



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