

Eaton® SSFI

Class III/Cat A, Portable Surge Filter



Surge Filter, 1 Phase 10A & 15A, 25kA Primary

Applications

- Plug-in UPS systems
- Servers
- Portable instrumentation
- POS systems
- Small office systems
- Industrial & rural surge prone sites

Key Features

- Surge suppression & filtering in a single package
- Small footprint, modular design
- Enclosed in IP 20 painted metal housing
- Surge suppression rating of 20kA (L-N)
- Protection Fail Indicators
- 3 mode, 3 Stage Protection
- 12 Month Warranty

The SSFI is designed 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. The unit has been designed in accordance with AS3100, AS1768, IEC61643-1, IEC61000-6-1, 2, 3, 4 & other standards & codes as applicable.

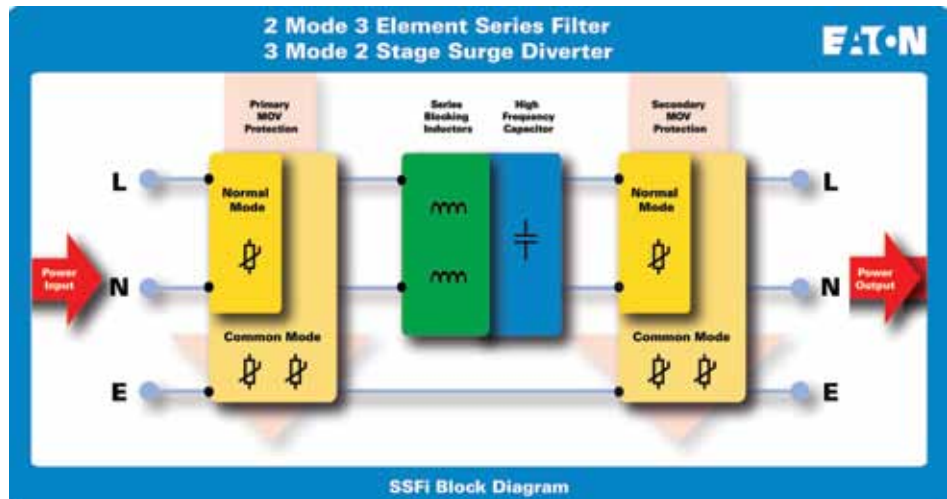
The SSFI is a 3-stage protection unit utilising primary & secondary MOV protection in conjunction with a Low-Q LC filter. The unit provides filtering of the line harmonics, noise & RF transmitters with a cut-off frequency of <10kHz & a minimum attenuation of 40dB above 1Mhz. The operation status of the SSFI is indicated by lamps on the front panel. The "OK" light indicates that power is applied to the SSFI. The "FAULT" light indicates that the surge protection circuitry is damaged & the unit should be replaced. An ideal device for Category A locations.

Surge Category

SSF10I & SSF15I are suitable for use in category locations:

Class III/Cat A

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



Technical	SSF10I	SSF15I
Number of ports	2 Port	
Method of mounting	Portable	
Input voltage - Uc	200-250VAC 1 Phase	
Maximum Continuous voltage - MCOV	285VAC L-N	
Temporary overvoltage - TOV	300VAC L-N, 15 mins	
Service type	TT, TN, TN C-S or any 1 phase system with a grounded neutral. This unit must not be connected to an ungrounded system.	
Test Classification	Class II	
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 = 1,555J	
Current rating - continuous	10A	15A
Test Classification	Class III (IEC 61643-1), Category A (ANSI/IEEE C62.41)	
Recommended max. overcurrent protection	10A	15A
Residual current	<0.5 mA	
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	20kA	
Ismax 8/20us (Line-Earth) Max surge level	10kA	
Ismax 8/20us (Neutral-Earth) Max surge level	10kA	
Filter attenuation	40dB nominal above 1MHz	
Initial clamp voltage (Line-Neutral)	560V	
Initial clamp voltage (Line-Earth)	680V	
Initial clamp voltage (Neutral-Earth)	680V	
Residual voltage (Vpl) (Line-Neutral) (Let through voltage)	<1100 (3kA, 8/20uS)	
Residual voltage (Vpl) (Line-Earth) (Let through voltage)	<1400 (3kA, 8/20uS)	
Residual voltage (Vpl) (Neutral-Earth) (Let through voltage)	<1400 (3kA, 8/20uS)	
Internal protection (fusing)	Thermal fusing on primary line-connected MOVs	
Terminations	IEC 320-C14 10A input x 1, IEC 320-C13 10A output x 1	IEC 320-C20 16A input x 1, IEC 320-C19 16A output x 1
Alarms/indicators	2 LED display, Power OK, Protection Fault	
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	155 x 150 x 50 mm (W x D x H), 500g	
Environment	-10 to 60°C, 0 to 95% RH (non-condensing)	

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

Line Diagram

