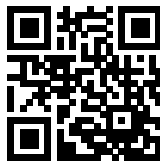


## Versatile Filtered Power Entry Module



- Rated currents up to 10 A
- For one or two fuses
- Fuses  $\varnothing 6.3 \times 32$  mm or  $\varnothing 5 \times 20$  mm
- 2-pole rocker switch
- Voltage selector
- Optional earth line choke (E type)



## Performance indicators

### Attenuation performance



## Technical Specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz
Nominal operating voltage	230 VAC
Rated currents	1 to 10 A @ 40°C
Operating frequency	10 A (4 A), 250 VAC*
High potential test voltage	P → PE 2000 VAC for 2 sec P → N 760 VAC for 2 sec
Temperature range (operation and storage)	-25°C to +85°C (25/85/21)
Protection category	IP 40 according to IEC 60529
Flammability corresponding to	UL 94V-0
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF (Mil-HB-217F)	>2,200,000 h @ 40°C/230 V
Fuse holder	1 or 2 fuses (Ø5 x 20 mm) (certified to IEC 60127-6), power acceptance 1.6W @ Ta 23°C per pole for 2 fuses. 2.5W, if only 1 pole is used.
Rocker switch description	
Switch ratings	
Function	Series/parallel Marking I - 0
Electrical specifications	Inrush current 51 A 6,000 on-off operations according to UL 1054, TV 5 10,000 on-off operations according to ENEC
USA (UL) and Canada (C-UL)	10 A, 125 VAC 10 A, 250 VAC 1/3 HP
Voltage selector description	
Voltage marking	
Series	110-120 V
Parallel	220-240 V

\* Value in ( ) relates to the inductive current charge:  $\cos(\phi) = 0.65$

## Approvals & Compliances



The FN 390 power entry module combines an IEC inlet, mains filter with single or dual-fuse holder, voltage selector and 2-pole rocker switch. Choosing FN 390 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptances. Standard IEC connector filters are a practical solution helping you to pass EMI system approval in a short time. Multiple options designed to offer you the desired solution.

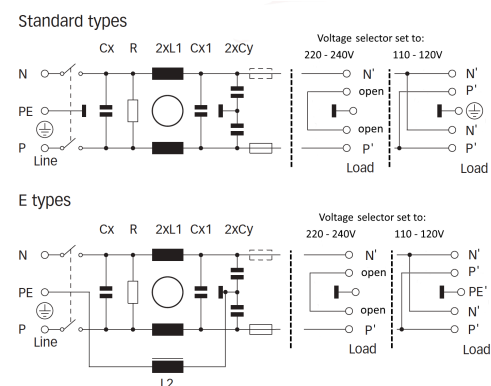
## Features and Benefits

- High conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Rear or front mounting
- Single or dual-fuse holder
- USA  $\varnothing 6.3 \times 32$  mm or EU  $\varnothing 5 \times 20$  mm fuses
- 2-pole rocker switch
- Voltage selector 110-120 V/220-240 V
- Custom-specific versions are available on request

## Typical Applications

- Portable electrical and electronic equipment
- Consumer goods
- EDP and office equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment

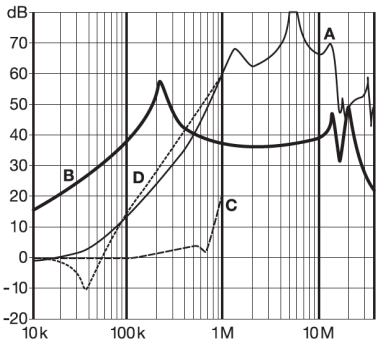
### Typical electrical schematic



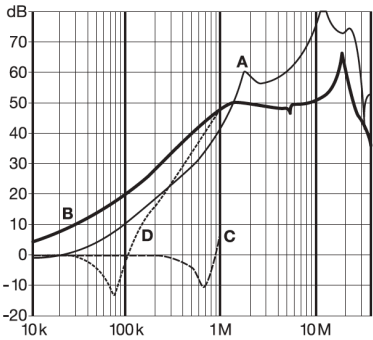


Typical Filter Attenuation

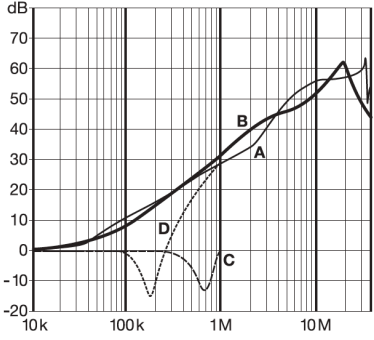
Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym; C=0.1 Ω/100 Ω sym; D=100 Ω/0.1 Ω sym



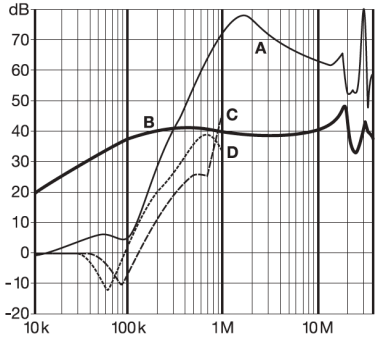
FN 39x: 1 A types



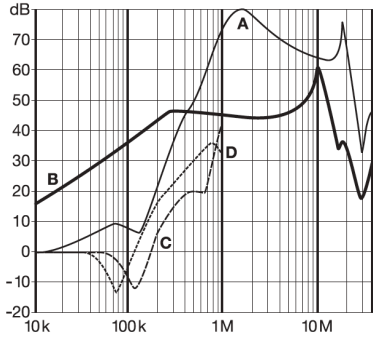
FN 39x: 2.5 A types



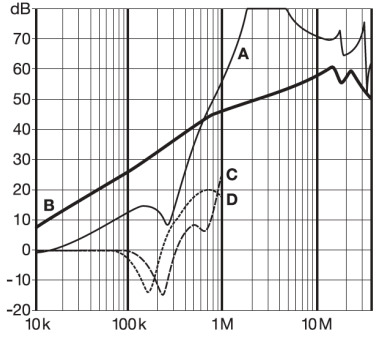
FN 39x: 6 A types



FN 139x: 1 A types



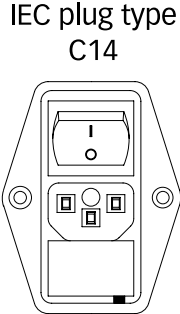
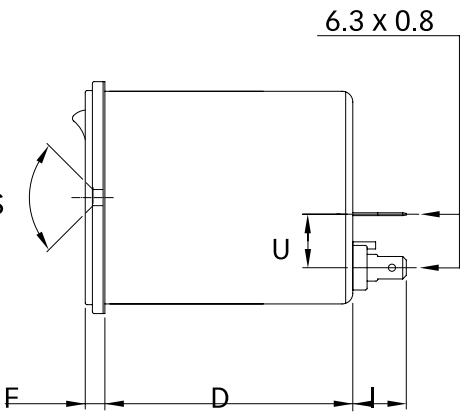
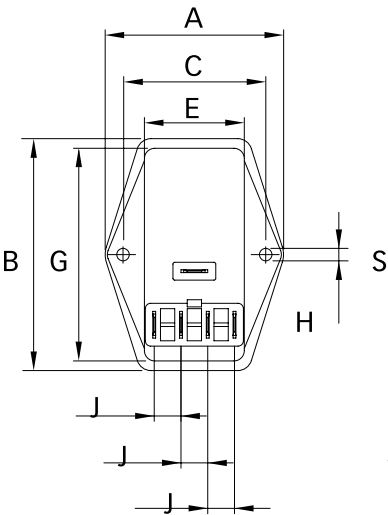
FN 139x: 2.5 A types



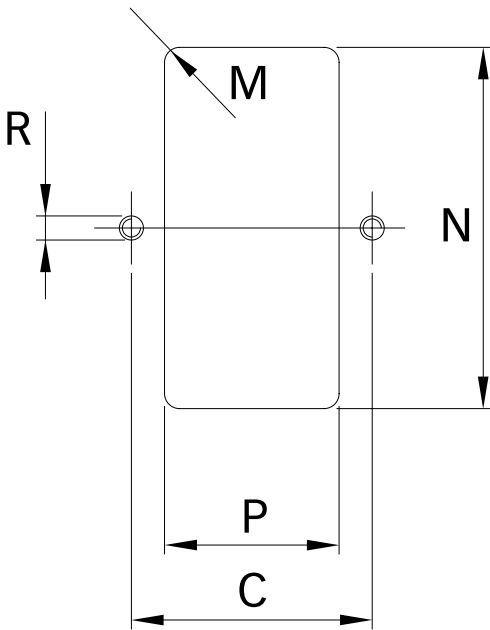
FN 139x: 6 and 10 A types

Mechanical Data

1 to 10 A types



Panel cut out



Dimensions

	1 to 10 A	Tolerances
A	50	±0.3
B	65	±0.3
C	40	±0.1
D	70	±0.5
E	28.5	±0.3
F	5.5	±0.3
G	59.8	±0.2
H	Ø 3.3	
I	13.5	±0.5
J	7.5	
M	R ≤ 2.5	
N	60	+0.5/-0
P	29	+0.5/-0
R	M3	
S	90°	
U	15	±0.3

All dimensions in mm; 1 inch=25.4 mm  
Tolerances according: ISO 2768-m/EN 22768-m

Please visit [www.schaffner.com](http://www.schaffner.com) to find more details on filter connections.

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