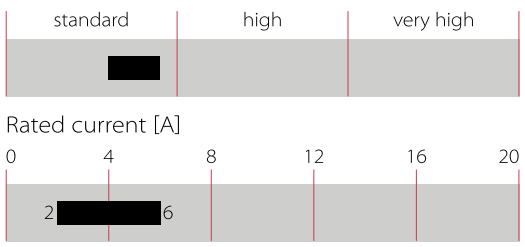
Versatile Filtered Power Entry Module



- Rated currents up to 6 A
- Single or dual-fuse holder
- Fuses ø6.3 x 32 mm or ø5 x 20 mm
- Voltage selector 100/120/230/240 V
- General purpose application
- Optional medical versions (B type)

Performance indicators

Attenuation performance



Rated current [A]

Approvals & Compliances

The FN 370 power entry module combines an IEC inlet, a mains filter with a single or dual- fuse holder and a voltage selector. Choosing FN 370 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. A wide selection on amperage ratings, fuse options, mounting possibilities and filters for medical applications are designed to offer you the desired solution.

Features and Benefits

- Good conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Rear/front or snap-in mounting
- Single or dual-fuse holder
- USA ø6.3 x 32 mm or EU ø5 x 20 mm fuses
- Two attenuation performance ranges
- Voltage selector 100/120/230/240 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
- Medical equipment

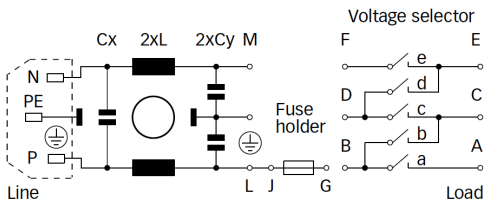
Technical Specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz
Nominal operating voltage	230 VAC
Rated currents	2 to 6 A @ 40°C
Operating frequency	DC to 400 Hz
High potential test voltage	P –> PE 2000 VAC for 2 sec (standard types) P –> PE 2500 VAC for 2 sec (B types) 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 94 V-0
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF (Mil-HB-217F)	>550,000 h @ 40°C/230 V
Function	Series/parallel
Voltage selector description	VOL-SE 4SP-4
Voltage marking	
1st	100
2nd	120
3rd	230
4th	240
Closed internal contact corresponding to	
1st (100)	a, c, e
2nd (120)	b, c, e
3rd (230)	a, d
4th (240)	b, d

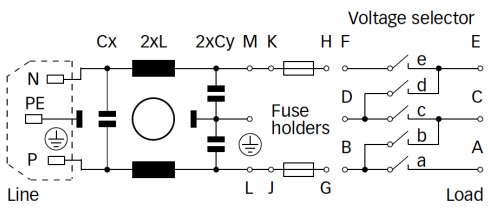
* Other selected voltage marking on request.

Typical electrical schematic

FN 370 / FN 376



FN 372 / FN 378 / FN 379



Filter Selection Table

Filter*	Rated current @ 40°C (25°C) [A]	Leakage current** @ 230 VAC/50 Hz [µA]	Inductance L [mH]	Capacitance Cx [nF]	Capacitance Cy [nF]	Resistance R [kΩ]	Output connections	Fuses*** [Qty]	Weight [g]
FN 370-2-2 z	2 (2.4)	373	0.70	47	2.2		13	1	55
FN 370-4-2 z	4 (4.8)	373	0.30	47	2.2		13	1	55
FN 370-6-2 z	6 (7.2)	373	0.18	47	2.2		13	1	55
FN 372-2-2 z	2 (2.4)	373	0.70	47	2.2		13	2	55
FN 372-4-2 z	4 (4.8)	373	0.30	47	2.2		13	2	55
FN 372-6-2 z	6 (7.2)	373	0.18	47	2.2		13	2	55
FN 378-2-2 z	2 (2.4)	373	0.70	47	2.2		13	2	60
FN 378-4-2 z	4 (4.8)	373	0.30	47	2.2		13	2	60
FN 378-6-2 z	6 (7.2)	373	0.18	47	2.2		13	2	60
FN 379-2-2 z	2 (2.4)	373	2.00	47	2.2		13	2	70
FN 379-4-2 z	4 (4.8)	373	0.80	47	2.2		13	2	70
FN 379-6-2 z	6 (7.2)	373	0.50	47	2.2		13	2	70
FN 379 B-2-2 z	2 (2.4)	2	2.00	47		1000	13	2	70
FN 379 B-4-2 z	4 (4.8)	2	0.80	47		1000	13	2	70
FN 379 B-6-2 z	6 (7.2)	2	0.50	47		1000	13	2	70

* Select the requested fuse holder for fuse EUR-1 or USA-1 (z).
** Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.
*** Filters are delivered without fuse.

Product selector

FN 37xx-y-zz

- 1: Fuse Ø5 x 20mm (FUSE-H EUR-1)
- 2: Fuse Ø6.3 x 32mm (FUSE-H USA-1)

- 2: Voltage selector, series / parallel 100/120/230/240V

- 2 to 6: Rated current

- Blank: Standard version
- B: Medical version (with bleed resistor and without Y2-capacitor)

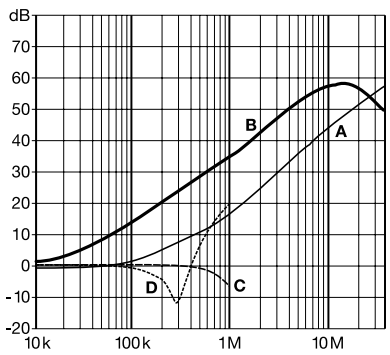
- 0: Snap-in version, single-fuse, standard performance
- 2: Snap-in version, dual-fuse, standard performance
- 8: Flange mounting version, dual-fuse, standard performance
- 9: Flange mounting version, dual-fuse, high performance

For example: FN 370-6-21, FN 378-4-22, FN 379 B-2-22

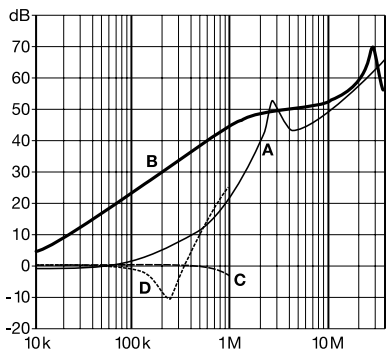
Typical Filter Attenuation

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 370/FN 372/FN 378

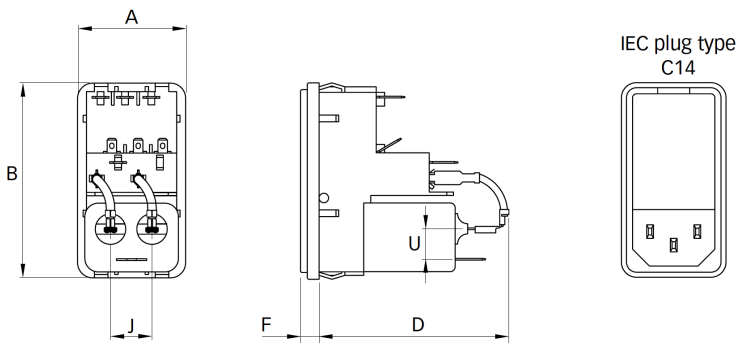


FN 379

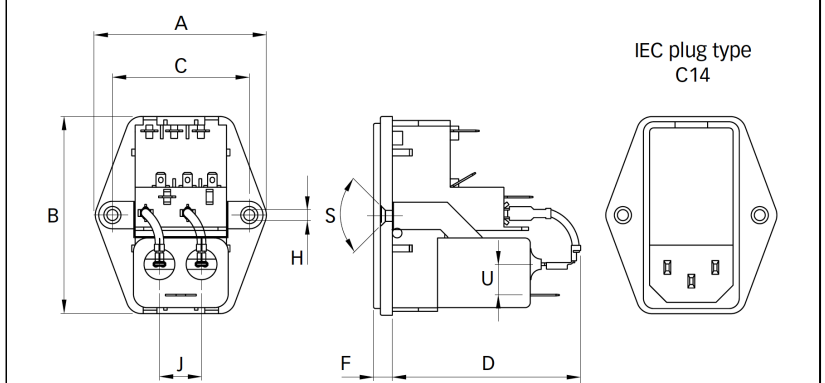


Mechanical Data

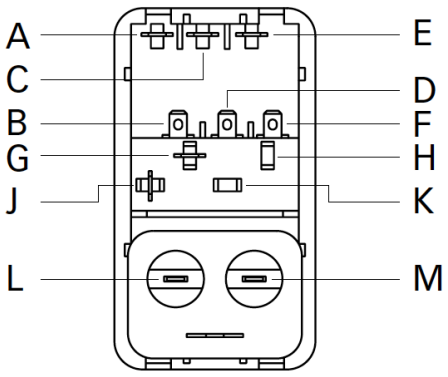
FN 370/FN 372



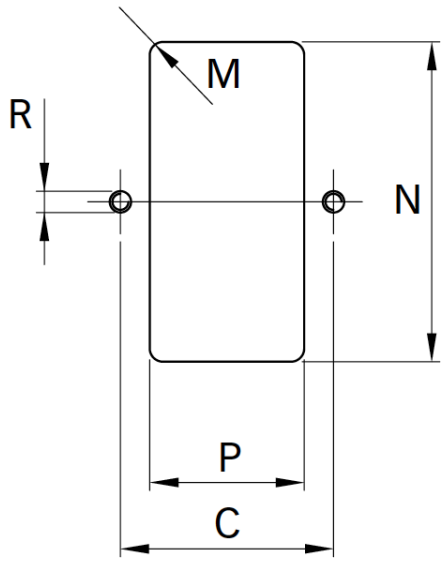
FN 378/FN 379



Connection designation



Panel cut out



Dimensions

	FN 370	FN 372	FN 378	FN 379	Tolerances
A	32	32	50	50	±0.3
B	58	58	58	58	±0.3
C			40	40	±0.1
D	54	54	54	64.5	
F	5.5	5.5	5.5	5.5	
H			Ø3.3	Ø3.3	
J	12.5	12.5	12.5	12.5	
M	R ≤2	R ≤2	R ≤2	R ≤2	±0.1
N	55.9*/56.2**	55.9*/56.2**	55.9*/56.2**	55.9*/56.2**	+0.2/-0
P	28.5	28.5	28.5	28.5	+0.2/-0
R			M3	M3	
S			90°	90°	
U	9	9	9	9	

* For a panel thickness between 0.8 and 3 mm
** For a back panel thickness between 2.1 and 3.2 mm

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

Please visit www.schaffner.com to find more details on filter connectors.

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