

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 standard high very high Rated current [A] 0 4 8 12 16 20 2 6

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	
lst	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.

Approvals & Compliances







RoHS

C € ĽK

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

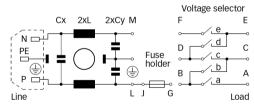
- Good conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Rear/front or snap-in mounting
- Single or dual-fuse holder
- USA ø6.3 x 32 mm or EU ø5 x 20 mm fuses
- Two attenuation performance ranges
- Voltage selector 100/120/230/240 V
-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

Typical Applications

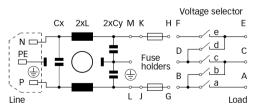
- Portable electrical and electronic equipment
- Consumer goods
- EDP and office equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment
- Medical equipment

Typical electrical schematic

FN 370 / FN 376



FN 372 / FN 378 / FN 379

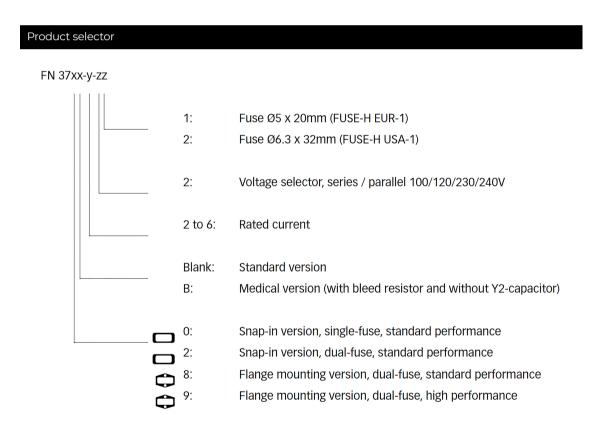


Filter Selection Table

Filter*	Rated current	Leakage current**	Inductance	Сар	acitance	Resistance	Output	Fuses***	Weight
	@ 40°C (25°C)	@ 230 VAC/50 Hz	L	Cx	Су	R	connections		
	[A]	[μ A]	[mH]	[nF]	[nF]	[kΩ]		[Qty]	[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).

^{***} Filters are delivered without fuse.



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

^{**} Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

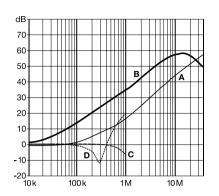
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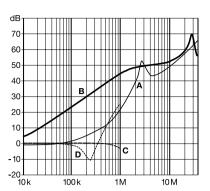
Typical Filter Attenuation

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

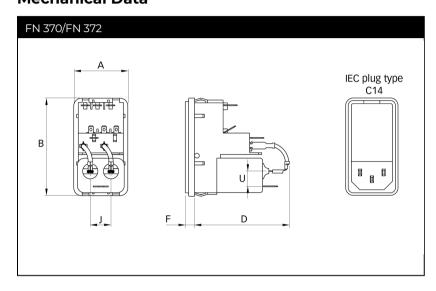
FN 370/FN 372/FN 378

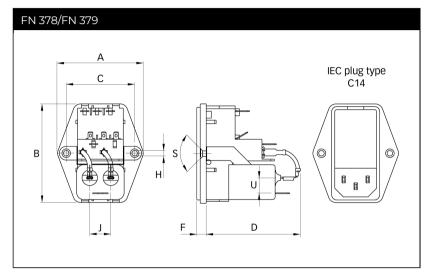






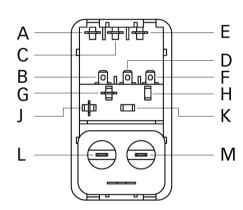
Mechanical Data

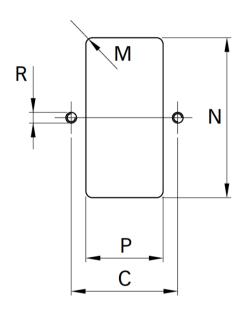




Connection designation

Panel cut out





4 Power Entry Module with EMC- Filter Schaffner GroupDATASHEET29. Jan 2025

Dimensions

	FN 370	FN 372	FN 378	FN 379	Tolerances
Α	32	32	50	50	±0.3
В	58	58	58	58	±0.3
С			40	40	±0.1
D	54	54	54	64.5	
F	5.5	5.5	5.5	5.5	
Н			Ø3.3	Ø3.3	
J	12.5	12.5	12.5	12.5	
М	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	

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

Please visit $\underline{www.schaffner.com}$ to find more details on filter connectors.

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

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