

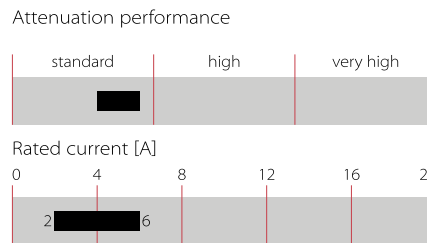
# Versatile Filtered Power Entry Module



- 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



## Technical specifications

<b>Maximum continuous operating voltage</b>	250 V, 50/60 Hz
<b>Operating frequency</b>	DC to 400 Hz
<b>Rated currents</b>	2 to 6 A @ 40°C max.
<b>High potential test voltage</b>	P → PE 2000 VAC for 2 sec (standard types) P → N 760 VAC for 2 sec P → PE 2500 VAC for 2 sec (B types)
<b>Protection category</b>	IP 40 according to IEC 60529
<b>Temperature range (operation and storage)</b>	-25°C to +85°C (25/85/21)
<b>Design corresponding to</b>	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
<b>Flammability corresponding to</b>	UL 94 V-2 or better
<b>MTBF @ 40°C/230 V (Mil-HB-217F)</b>	550,000 hours
<b>Voltage selector description</b>	VOL-SE 4SP-4
<b>Function</b>	Series/parallel
<b>Voltage marking</b>	
<b>1st</b>	100
<b>2nd</b>	120
<b>3rd</b>	230
<b>4th</b>	240
<b>Closed internal contact corresponding to</b>	
<b>1st</b>	a, c, e
<b>3st</b>	a, d
<b>4st</b>	b, d
<b>2st</b>	b, c, e

\* Other selected voltage marking on request.

### Approvals



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.

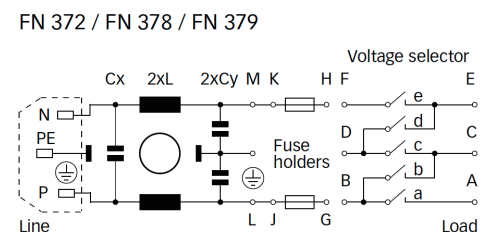
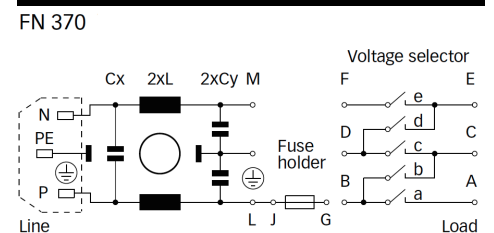
### Features and benefits

- 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



## Filter selection table

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

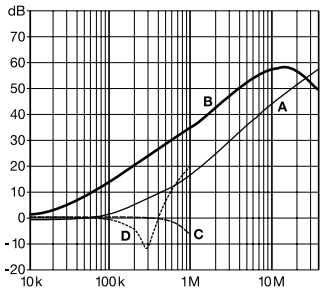
Product selector

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

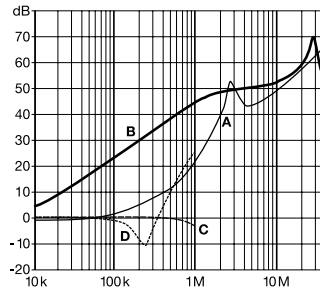
### Typical filter attenuation

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

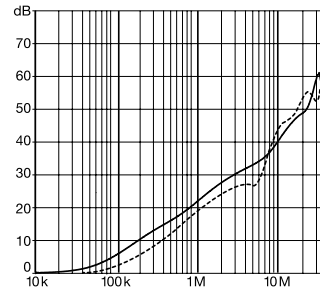
FN 370/FN 372/FN 378



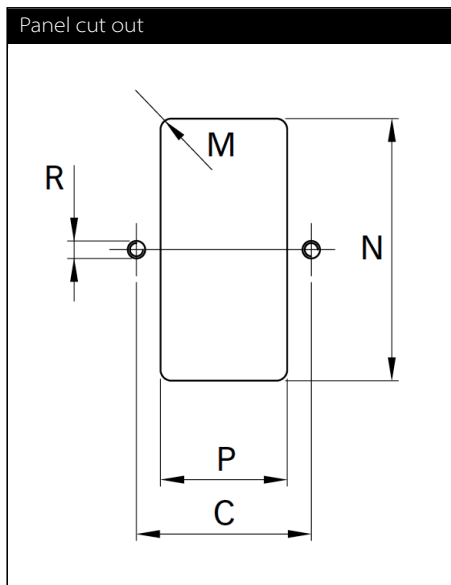
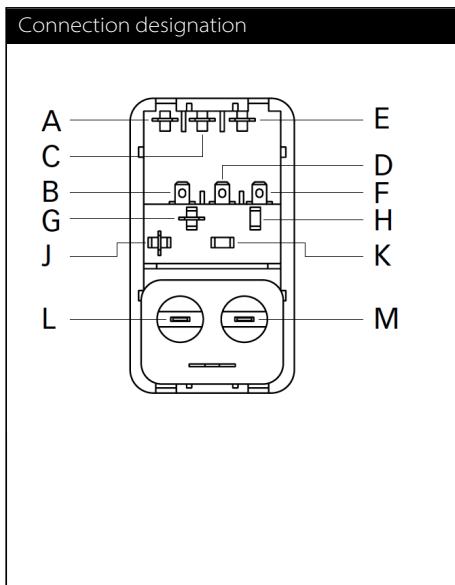
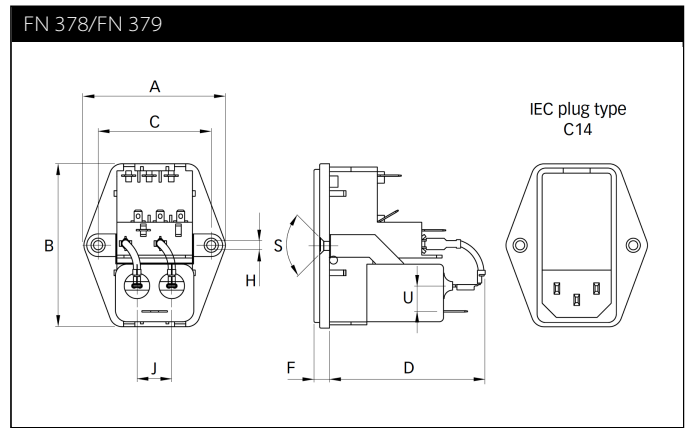
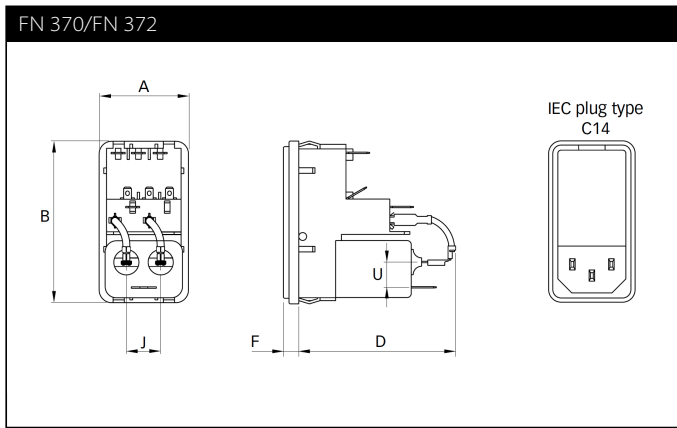
FN 379



6A Types only



### Mechanical data



## Dimensions

	<b>FN 370</b>	<b>FN 372</b>	<b>FN 378</b>	<b>FN 379</b>	<b>Tolerances</b>
<b>A</b>	32	32	50	50	±0.3
<b>B</b>	58	58	58	58	±0.3
<b>C</b>			40	40	±0.1
<b>D</b>	54	54	54	64.5	
<b>F</b>	5.5	5.5	5.5	5.5	
<b>H</b>			Ø3.3	Ø3.3	
<b>J</b>	12.5	12.5	12.5	12.5	
<b>M</b>	R ≤2	R ≤2	R ≤2	R ≤2	±0.1
<b>N</b>	55.9*/56.2**	55.9*/56.2**	55.9*/56.2**	55.9*/56.2**	+0.2/-0
<b>P</b>	28.5	28.5	28.5	28.5	+0.2/-0
<b>R</b>			M3	M3	
<b>S</b>			90°	90°	
<b>U</b>	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](http://www.schaffner.com) to find more details on filter connectors.



## Headquarters, global innovation and development

### Switzerland

#### Schaffner Group

Nordstrasse 11  
4542 Luterbach  
T +41 32 681 66 26  
[info@schaffner.com](mailto:info@schaffner.com)  
[www.schaffner.com](http://www.schaffner.com)



## Sales and application centers

### China

#### Schaffner EMC Ltd. Shanghai

T20-3 C, No 565 Chuangye Road,  
Pudong district  
201201 Shanghai  
T +86 21 3813 9500  
[cschina@schaffner.com](mailto:cschina@schaffner.com)  
[www.schaffner.com.cn](http://www.schaffner.com.cn)

### Finland

#### Schaffner Oy

Sauvonrinne 19 H  
08500 Lohja  
T +358 50 468 7284  
[finlandsales@schaffner.com](mailto:finlandsales@schaffner.com)

### France

#### Schaffner EMC S.A.S.

16-20 Rue Louis Rameau  
95875 Bezons  
T +33 1 34 34 30 60  
F +33 1 39 47 02 28  
[francesales@schaffner.com](mailto:francesales@schaffner.com)

### Germany

#### Schaffner Deutschland GmbH

Schoemperlenstrasse 12B  
76185 Karlsruhe  
T +49 721 56910  
F +49 721 569110  
[germanysales@schaffner.com](mailto:germanysales@schaffner.com)

### India

#### Schaffner India Pvt. Ltd

REGUS WORLD TRADE CENTRE  
WTC, 22nd Floor Unit No 2238, Brigade  
Gateway Campus, 26/1, Dr. Rajkumar Road  
Mallechwaram (W)  
560055 Bangalore  
T +91 80 67935355  
[indiasales@schaffner.com](mailto:indiasales@schaffner.com)

### Italy

#### Schaffner EMC S.r.l.

Via Ticino, 30  
20900 Monza (MB)  
T +39 039 21 41 070  
[italysales@schaffner.com](mailto:italysales@schaffner.com)

### Japan

#### Schaffner EMC K.K.

1-32-12, Kamiyama, Setagaya-ku  
7F Mitsui-seimei Sangenjaya Bldg.  
154-0011 Tokyo  
T +81 3 5712 3650  
F +81 3 5712 3651  
[japansales@schaffner.com](mailto:japansales@schaffner.com)  
[www.schaffner.jp](http://www.schaffner.jp)

### Singapore

#### Schaffner EMC Pte Ltd.

#05-09, Kg Ubi Ind. Estate  
408705 Singapore  
T +65 6377 3283  
F +65 6377 3281  
[singaporesales@schaffner.com](mailto:singaporesales@schaffner.com)

### Spain

#### Schaffner EMC España

Calle Caléndula 93, Miniparc III, Edificio E  
El Soto de Moraleja, Alcobendas  
28109 Madrid  
T +34 917 912 900  
F +34 917 912 901  
[spainsales@schaffner.com](mailto:spainsales@schaffner.com)

### Sweden

#### Schaffner EMC AB

Tegeluddsvägen 76, 2tr  
115 28 Stockholm  
T +46 8 5050 2425  
[swedensales@schaffner.com](mailto:swedensales@schaffner.com)  
[www.schaffner.com](http://www.schaffner.com)

### Switzerland

#### Schaffner EMV AG

Nordstrasse 11  
4542 Luterbach  
T +41 32 681 66 26  
[switzerlandsales@schaffner.com](mailto:switzerlandsales@schaffner.com)

### Taiwan R.O.C.

#### Schaffner EMV Ltd.

20 Floor-2, No 97, Section 1, XinTai 5th Road  
22175 XiZhi District New Taipei City 22175  
T +886 2 2697 5500  
F +886 2 2697 5533  
[taiwansales@schaffner.com](mailto:taiwansales@schaffner.com)  
[www.schaffner.com.tw](http://www.schaffner.com.tw)

### Thailand

#### Schaffner EMC Co. Ltd.

Northern Region Industrial Estate  
67 Moo 4 Tambon Ban Klang  
Amphur Muangng P.O. Box 14  
51000 Lamphun  
T +66 53 58 11 04  
F +66 53 58 10 19  
[thailandsales@schaffner.com](mailto:thailandsales@schaffner.com)

### United Kingdom

#### Schaffner Ltd.

5 Ashville Way, Molly Millars Lane  
Wokingham  
RG41 2PL Berkshire  
T +44 118 9770070  
F +44 118 9792969  
[uksales@schaffner.com](mailto:uksales@schaffner.com)

### USA

#### Schaffner EMC Inc.

52 Mayfield Avenue  
08837 Edison, New Jersey  
T +1 800 367 5566  
T +1 732 225 9533  
F +1 732 225 4789  
[usasales@schaffner.com](mailto:usasales@schaffner.com)  
[www.schaffnerusa.com](http://www.schaffnerusa.com)

#### Schaffner North America

6722 Thirlane Road  
24019 Roanoke, Virginia  
T +1 276 228 7943  
F +1 276 228 7953

#### Schaffner North America

823 Fairview Road  
24382 Wytheville, Virginia  
T +1 276 228 7943  
F +1 276 228 7258

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.