

IEC inlet filters **FN 370**

Versatile filtered power entry module





- Rated currents up to 6A
- Single or dual-fuse holder
- Fuses Ø6.3 x 32mm or Ø5 x 20mm
- Voltage selector 100/120/230/240V
- General purpose application
- Optional medical versions (B type)

Approvals







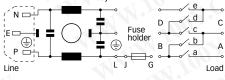


Technical specifications

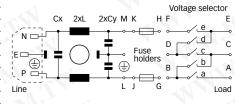
Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	2 to 6A @ 40°C max.
High potential test voltage:	P -> E 2000VAC for 2 sec (standard types)
riigii poteritiai test voitage.	P -> E 2500VAC for 2 sec (Standard types)
	P -> N 760VAC for 2 sec (B types)
Protection category:	IP40 according to IEC 60529
Temperature range (operation and storage):	-25°C to +85°C (25/85/21)
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
Flammability corresponding to:	UL 94V-2 or better
MTBF @ 40°C/230V (Mil-HB-217F):	550,000 hours
Voltage selector description:	VOL-SE 4SP-4
Function:	Series/parallel
Voltage marking*:	
1st:	100
2nd:	120
3rd:	230
4th:	240
Closed internal contact corresponding to:	
1st:	a, c, e
2nd:	b, c, e
3rd:	a, d
4th:	b, d

Typical electrical schematic FN 370 / FN 376

2xL



FN 372 / FN 378 / FN 379



The FN 370 power entry module combines an IEC inlet, a mains filter with a single or dualfuse 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 32mm or EU Ø5 x 20mm fuses.
- Two attenuation performance ranges.
- Voltage selector 100/120/230/240V.
- 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

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Other selected voltage marking on request.

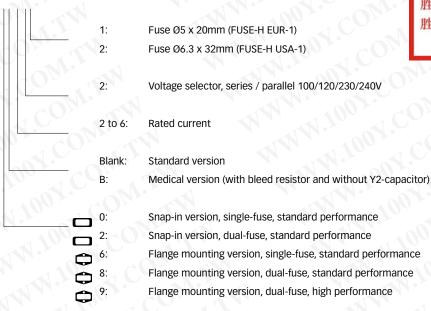
Filter selection table

Filter*	Rated current @ 40°C (25°C)	Leakage current** @ 230VAC/50Hz [µA]	Inductance L [mH]	Capacitance		Resistance	Output	Fuses***	Weight
				Cx [nF]	Cy [nF]	R [kΩ]	0	[Qty]	[g]
FN 370-4-2.1	4 (4.8)	373	0.30	47	2.2		13	1	55
FN 370-6-2.1	6 (7.2)	373	0.18	47	2.2	1	13	1	55
FN 372-2-2.2	2 (2.4)	373	0.70	47	2.2	1000	13	2	55
FN 372-4-2.2	4 (4.8)	373	0.30	47	2.2		13	2	55
FN 372-6-2.2	6 (7.2)	373	0.18	47	2.2	- 400	13	2	55
FN 376-2-2.1	2 (2.4)	373	0.70	47	2.2		13	1	55
FN 376-4-2.1	4 (4.8)	373	0.30	47	2.2		13	1	55
FN 376-6-2.1	6 (7.2)	373	0.18	47	2.2		13	1	55
FN 378-2-2.2	2 (2.4)	373	0.70	47	2.2		13	2	60
FN 378-4-2.2	4 (4.8)	373	0.30	47	2.2		13	2	60
FN 378-6-2.2	6 (7.2)	373	0.18	47	2.2		13	2	60
FN 379-2-2.2	2 (2.4)	373	2.00	47	2.2		13	2	70
FN 379-4-2.2	4 (4.8)	373	0.80	47	2.2		13	2	70
FN 379-6-2.2	6 (7.2)	373	0.50	47	2.2		13	2	70
		400							
FN 379B-2-2.2	2 (2.4)	2	2.00	47		1000	13	2	70
FN 379B-4-2.2	4 (4.8)	2	0.80	47		1000	13	2	70
FN 379B-6-2.2	6 (7.2)	2	0.50	47		1000	13	2	70

^{*} Select the requested fuse holder for fuse EUR-1 or USA-1.

Product selector

FN 37xx-y-zz



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

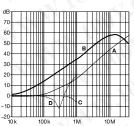
^{**} Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

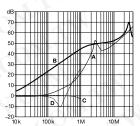
^{***} Filters are delivered without fuse.

Typical filter attenuation

Per CISPR 17; A = $50\Omega/50\Omega$ sym; B = $50\Omega/50\Omega$ asym; C = $0.1\Omega/100\Omega$ sym; D = $100\Omega/0.1\Omega$ sym

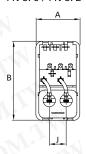
FN 370 / FN 372 / FN 376 / FN 378 FN 379

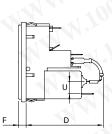


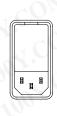


Mechanical data

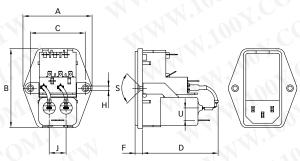
FN 370 / FN 372



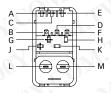




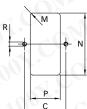
FN 376 / FN 378 / FN 379



Connection designation







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Dimensions

	FN 370	FN 372	FN 376	FN 378	FN 379	Tolerances	
	10 J. COM			1007	COM	N. Carlotte	
A	32	32	50	50	50	±0.3	
В	58	58	58	58	58	±0.3	
C	10		40	40	40	±0.1	
D	54	54	54	54	64.5	1.	
F	5.5	5.5	5.5	5.5	5.5		
H			Ø3.3	Ø3.3	Ø3.3	1	
J	12.5	12.5	12.5	12.5	12.5		
M	R ≤ 2	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**	55.9*/56.2**	+0.2/-0	
P	28.5	28.5	28.5	28.5	28.5	+0.2/-0	
R			M3	M3	M3		
S			90°	90°	90°		
U	9	9	9	9	9		

^{*} For a back panel thickness between 0.8 and 2.0mm

All dimensions in mm; 1 inch = 25.4mm

Tolerances according: ISO 2768-m / EN 22768-m

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