# imall

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## AC Feedthrough Filter



**Technical specifications** 

	IEC/EN 60939 approval
l	Rated currents from 10 to 100 A
l	5 kV pulse test capability
I	Class Y2 capacitor





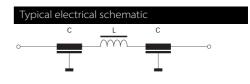
Feedthrough filters offer a high insertion loss across a broad band of frequencies from a few tens of kHz up to the GHz region. In general, feedthrough filters offer a higher level of EMI suppression than feedthrough capacitors of the same current rating. This is particularly relevant to applications where source impedance is smaller than 50  $\Omega$ . Different versions are available offering a wide selection on operating currents and performance levels. AC feedthrough filters are designed and approved for up to 300 VAC 50/60 Hz operation.

#### **Features and benefits**

Very low internal series inductance
Very high self-resonant frequency
Self-healing dielectric
High quality and reliability
Through-bulkhead mounting
Anti-twist protection
Custom-specific or dual-versions on request

## **Typical applications**

Power line filter for 110/240 VAC power lines
Increasing system and information security
Power supplies
Switching and cellular equipment
Computer servers
UPS power supplies
Medical equipment
Shielded rooms



Rated currents
Capacitor class
High potential test voltage
Insulation resistance (100VDC after 60 sec)
Temperature report (encyption and starses)

Maximum continuous operating voltage

Temperature range (operation and storage) Flammability corresponding to MTBF @ 60°C/300 V (Mil-HB-217F)

**Operating frequency** 

250 VAC, 50/60 Hz (UL) 1000 VDC max. 10 to 100 A @ 60°C max. Y2 3000 VDC for 2 sec <0.33 μF, R >15,000 MΩ >0.33 μF, τ >5000 s -40°C to +100°C (40/100/21) UL 94 V-2 or better <200 A: >675,000 hours ≥200 A: >494,000 hours DC to 60 Hz

300 VAC, 50/60 Hz (ENEC)

## Feedthrough selector table

Feedthrough	Rated current	Leakage current*	Capacitance**	Inductance	DC resistance***	Weight
	@ 60°C	@ 250 VAC/50 Hz	с	L @ 10 kHz	R @ 25°C	
	[A]	[mA]	[nF]	[nH]	[mΩ]	[g]
FN 7611-10-M3	10	1.89	10	70	1.2	55
FN 7612-10-M3	10	8.86	47	70	1.52	70
FN 7611-16-M4	16	4.15	22	70	0.65	80
FN 7612-16-M4	16	18.85	100	70	0.92	90
FN 7611-32-M4	32	4.15	22	70	0.65	80
FN 7612-32-M4	32	18.85	100	70	0.92	90
FN 7611-63-M6	63	28.3	150	186	0.47	250
FN 7612-63-M6	63	88.6	470	124	0.53	500
FN 7612-100-M8	100	188	1000	124	0.23	750

\* Tolerance +20%

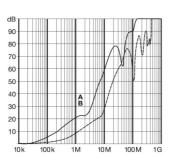
\*\* Tolerance ±20%

\*\*\* Tolerance +15%

## Typical filter attenuation

Full load, 50  $\Omega$  system

10 A types

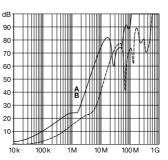


A = FN 7612-10-M3

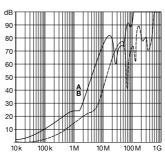
B = FN 7611-10-M3

100 A types

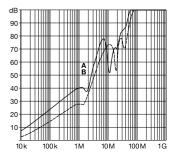
16 A types



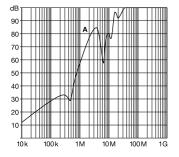
A = FN 7612-16-M4 B = FN 7611-16-M4 32 A types



A = FN 7612-32-M4 B = FN 7611-32-M4 63 A types



A = FN 7612-63-M6 B = FN 7611-63-M6

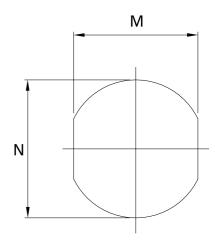


A = FN 7612-100-M8

## **Mechanical data**

## FN 761x 10 A С D А L В Е ( )S Т no torque on the axis 148





## Dimensions

	Α	В	с	D	E	L	м	Ν	s	т
FN 7611-10-M3	107	12	20	17	16	66	10.3	Ø12.3	M3	M12x1
FN 7612-10-M3	140	12	20	17	16	99	10.3	Ø12.3	M3	M12x1
FN 7611-16-M4	116	14	25	22	18	69	14.3	Ø16.3	M4	M16x1
FN 7612-16-M4	148	14	25	22	18	101	14.3	Ø16.3	M4	M16x1
FN 7611-32-M4	116	14	25	22	18	69	14.3	Ø16.3	M4	M16x1
FN 7612-32-M4	148	14	25	22	18	101	14.3	Ø16.3	M4	M16x1
FN 7611-63-M6	173	16	32	27	26	105	18.3	Ø20.3	M6	M20×1
FN 7612-63-M6	189	19	54	41	26	118	24.3	Ø27.3	M6	M27×1.5
FN 7612-100-M8	227	19	54	41	32	144	24.3	Ø27.3	M8	M27×1.5
Tolerances					±2		±0.2			

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

## **Recommended torque**

	МЗ	M4	M6	M8	M12	M12x1	M16x1	M20x1	M27x1.5	M32x1.5
Terminal thread	0.5 Nm	1.2 Nm	2.5 Nm	5 Nm	11 Nm					
Mounting thread						3 Nm	4 Nm	7 Nm	12 Nm	14 Nm

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