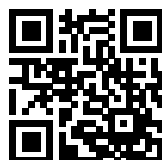


# Multi-stage general purpose AC/DC EMI Filter



- Rated currents from 1 to 30 A
- High differential and common-mode attenuation
- Optional medical versions (B type)
- Optional safety versions (A type)



### Performance indicators

Attenuation performance



Rated current [A]



### Approvals & Compliances



### Features and Benefits

- FN 2060 two-stage filters are designed for easy and fast chassis mounting
- FN 2060 B versions without capacitors to earth comply to 1MOP for ME (medical equipment) acc. IEC 60601-1
- FN 2060 A version with low capacitance to earth for safety critical applications with necessity for low leakage currents
- All filters provide a high conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- FN 2060 two-stage filters are designed for noisy applications requiring good differential and common-mode attenuation
- FN 2060 filters are also available as single-stage filters (FN 2010 series)
- Various terminal options allow you to select the desired connection style

## Family Technical Specifications

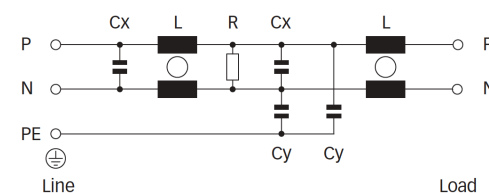
<b>Maximum continuous operating voltage</b>	250 VAC, 50/60 Hz 250 VDC
<b>Nominal operating voltage</b>	230 VAC
<b>High potential test voltage</b>	P → PE 2000 VAC for 2 sec P → PE 2500 VAC for 2 sec (B types) P → N 1100 VDC for 2 sec
<b>Rated currents</b>	1 to 30 A @ 40°C
<b>Overvoltage category</b>	II acc. IEC 60664-1
<b>Pollution degree</b>	2 acc. IEC 60664-1
<b>Temperature range (operation and storage)</b>	-25°C to +100°C (25/100/21)**
<b>Altitude</b>	2000m (above derating applies)**
<b>Flammability corresponding to</b>	Laces for -07 version: UL 94 VW-1 Terminal plastic for -06/-08 version: UL 94 V-0 Grommet for -07 version: UL 94 V-0
<b>Certified to</b>	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 (applies to AC and DC applications)
<b>Design corresponding to</b>	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
<b>MTBF (Mil-HB-217F)</b>	>950,000 h @ 40°C/230 V 1,650,000 h (B types) @ 40°C/230 V
<b>Operating frequency</b>	DC to 400 Hz

\* maximum RMS operating voltage at rated frequency or the maximum DC operating voltage \*\* for dedicated requests exceeding this specification (e.g. -40 °C or higher altitude) please contact your local Schaffner Sales office












































































### Typical Applications

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Building automation
- Industrial applications
- Machinery
- Medical equipment
- Electronic data processing equipment
- Office automation and datacom equipment
- Various noisy applications requiring good filter performance











































### Typical electrical schematic



## Articles

	Article	Rated Current @ambient (A)	Leakage current IEC60939 (A)	Power Loss (W)	Inductance L1	Capacitance		Resistance (kΩ)	Input/Output connections (Nm)		Dist. stock	Read More
						Cx1 (μF)	Cy1 (μF)		Input terminal	Output terminal		
	FN2060-10-06	10	0.66	4.3	0.8	0.47	4.7	470	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060-10-07	10	0.66	4.3	0.8	0.47	4.7	470	07 - wire	07 - wire		
	FN2060-10-08	10	0.66	4.3	0.8	0.47	4.7	470	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060-1-06	1	0.66	1.6	12	0.22	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060-1-07	1	0.66	1.6	12	0.22	4.7	1000	07 - wire	07 - wire		
	FN2060-12-06	12	0.66	6.2	0.58	0.47	4.7	470	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060-12-07	12	0.66	6.2	0.58	0.47	4.7	470	07 - wire	07 - wire		
	FN2060-12-08	12	0.66	6.2	0.58	0.47	4.7	470	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060-16-06	16	0.66	4.4	0.65	0.33	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060-16-07	16	0.66	4.4	0.65	0.33	4.7	1000	07 - wire	07 - wire		
	FN2060-16-08	16	0.66	4.4	0.65	0.33	4.7	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060-20-06	20	0.66	5.3	0.6	1	4.7	220	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060-20-08	20	0.66	5.3	0.6	1	4.7	220	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060-30-08	30	1.41	9.1	0.6	1	10	220	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060-3-06	3	0.66	2.2	2.5	0.22	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060-3-07	3	0.66	2.2	2.5	0.22	4.7	1000	07 - wire	07 - wire		
	FN2060-6-06	6	0.66	3.2	0.97	0.22	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060-6-07	6	0.66	3.2	0.97	0.22	4.7	1000	07 - wire	07 - wire		
	FN2060A-10-06	10	0.07	4.3	0.8	0.47	0.47	470	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060A-12-06	12	0.07	6.2	0.58	0.47	0.47	470	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060A-16-06	16	0.07	4.4	0.65	0.33	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060A-16-08	16	0.07	4.4	0.65	0.33	0.47	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060A-20-06	20	0.07	5.3	0.6	1	0.47	220	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060A-20-08	20	0.07	5.3	0.6	1	0.47	220	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060A-30-08	30	0.07	9.1	0.6	1	0.47	220	08 - M4 screw terminal	08 - M4 screw terminal		

## Articles

	Article	Rated Current @ambient (A)	Leakage current IEC60939 (A)	Power Loss (W)	Inductance L1	Capacitance		Resistance (kΩ)	Input/Output connections (Nm)		Dist. stock	Read More
						Cx1 (μF)	Cy1 (μF)		Input terminal	Output terminal		
	FN2060A-3-06	3	0.07	2.2	2.5	2.2	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060A-6-06	6	0.07	3.2	0.97	0.22	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060B-10-06	10	0	4.3	0.8	0.47		470	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060B-1-06	1	0	1.6	12	0.22		1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060B-1-07	1	0	1.6	12	0.22		1000	07 - wire	07 - wire		
	FN2060B-12-06	12	0	6.2	0.58	0.47		470	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060B-16-06	16	0	4.4	0.65	0.33		1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060B-16-07	16	0	4.4	0.65	0.33		1000	07 - wire	07 - wire		
	FN2060B-20-06	20	0	5.3	0.6	1		220	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060B-20-08	20	0	5.3	0.6	1		220	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060B-30-08	30	0	9.1	0.6	1		220	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2060B-3-06	3	0	2.2	2.5	0.22		1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060B-6-06	6	0	3.2	0.97	0.22		1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2060L-12-06	12	2.59						06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		

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