



Single-Phase Filters FN 2060

Multi-stage General Purpose EMI Filter



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

III SCHAFFNER
energy efficiency and reliability

Approvals



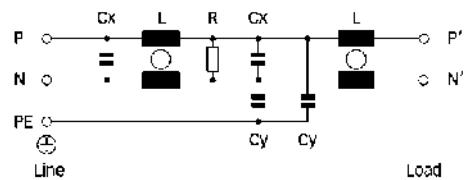
Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	1 to 30 A @ 40°C max.
High potential test voltage:	P -> PE 2000VAC for 2 sec P -> N 1100VDC for 2 sec
Temperature range (operation and storage):	-25°C to +100°C (25/100/21)
Flammability corresponding to:	UL 94V-2 or better
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF @ 40°C/230V (Mil-HB-217F):	950,000 hours 1,650,000 hours (B types)

Features and benefits

- FN 2060 two-stage filters are designed for easy and fast chassis mounting.
- FN 2060 filters are also available as B versions without Y-capacitors for medical applications as well as A version with low capacitance 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.

Typical electrical schematic

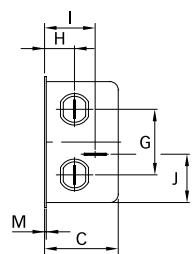
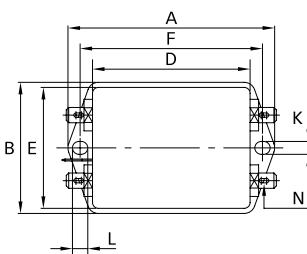


Typical applications

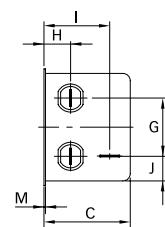
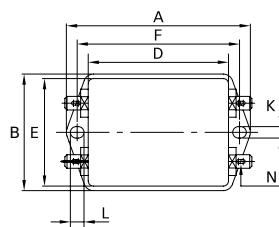
- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Building automation
- Industrial applications
- Machinery
- Medical equipment
- Electronic data processing equipment
- Office automation and datacom equipment
- Various noisy applications requiring good filter performance

Mechanical data

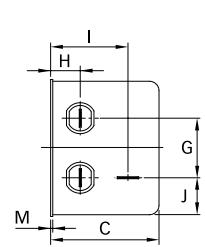
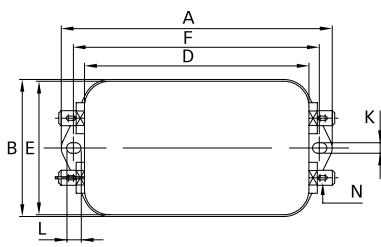
Connection style -06, 1 to 12A types



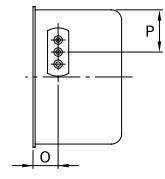
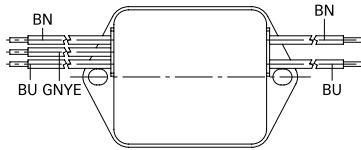
Connection style -06, 16A types



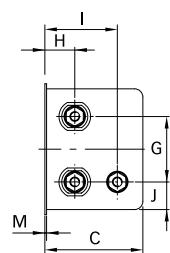
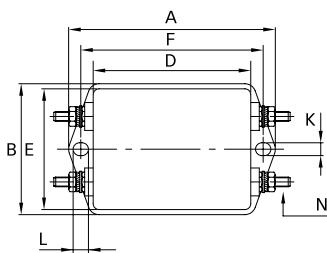
Connection style -06, 20A types



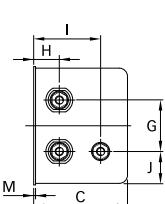
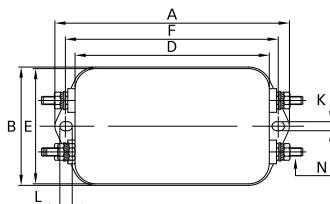
Connection style -07, 1 to 16A types (same dimensions as style -06)



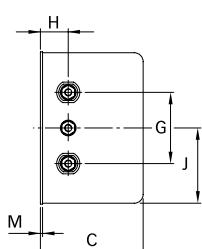
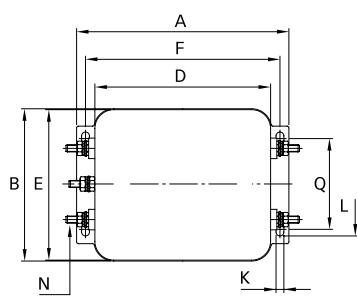
Connection style -08, 16A types



Connection style -08, 20A types



Connection style -08, 30A types



	1A	3A	6A	10A	12A	16A	20A	30A	Tolerances
A	71	71	71	85	85	85	113.5 ±1	119 ±1	±0.5
B	46.6	46.6	46.6	54	54	54	57.5 ±1	85.5 ±1	±0.5
C	29.3	29.3	29.3	30.3	30.3	40.3	45.4 ±1	57.6 ±1	±0.5
D	50.5	50.5	50.5	64.8	64.8	64.8	94 ±1	98.5 ±1	±0.5
E	44.5	44.5	44.5	49.8	49.8	49.8	56	84.5	±0.5
F	61	61	61	75	75	75	103	109	±0.3
G	21	21	21	27	27	27	25	40	±0.2
H	10.8	10.8	10.8	12.3	12.3	12.3	12.4	15.6	±0.5
I	19.3	19.3	19.3	20.8	20.8	29.8	32.4		±0.5
J	20.1	20.1	20.1	19.9	19.9	11.4	15.5	42.25	±0.5
K	5.3	5.3	5.3	5.3	5.3	5.3	4.4	4.4	
L	6.3	6.3	6.3	6.3	6.3	6.3	6	7.4	
M	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.2	
Connection style -06									
N	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	
Connection style -07									
O	8.3	8.3	8.3	8.3	8.3	8.3			±0.5
P	14	14	14	14.9	14.9	14.9			
AWG type wire	AWG 20	AWG 20	AWG 18	AWG 18	AWG 16	AWG 16			
Wire length	140	140	140	140	140	140			+5
Connection style -08									
N					M4	M4	M4		
Q					51				±0.2

All dimensions in mm; 1 inch = 25.4mm

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