

# 1-phase filters FN 2320

## Performance EMI filter

**SCHAFFNER**  
energy efficiency and reliability



- Rated currents from 3 to 20A
- Broadband attenuation characteristics
- UL-rated materials

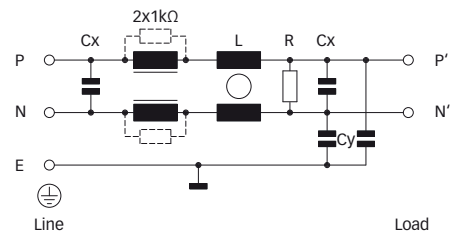
### Approvals



### Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	3 to 20A @ 40°C max.
High potential test voltage:	P → E 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):	1,300,000 hours

### Typical electrical schematic



### Features and benefits

- FN 2320 filters are designed for easy and fast chassis mounting.
- FN 2320 filters offer a broadband attenuation characteristic up to the higher frequencies.
- All filters provide a high symmetrical attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- Faston terminal connection with additional spade solder possibility.
- Custom-specific versions on request.

### Typical applications

- Electrical and electronic equipment
- Consumer goods
- Power supplies
- Office automation equipment
- Datacom equipment
- Building automation

Filter selection table

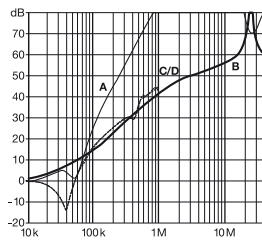
Filter	Rated current @ 40°C (25°C)	Leakage current* @ 230VAC/50Hz	Inductance		Capacitance		Resistance	Input/Output connections	Weight [g]
	[A]	[mA]	L [mH]	L1 [μH]	Cx [μF]	Cy [nF]	R [MΩ]		
FN 2320Y-3-06	3 (3.35)	0.94	1.1	30	0.33	5.5	1	-06	125
FN 2320Y-6-06	6 (6.7)	0.94	1.9	70	0.33	5.5	1	-06	275
FN 2320Y-10-06	10 (11.2)	0.94	1.3	40	0.33	5.5	1	-06	285
FN 2320Y-20-06	20 (22.4)	0.94	1	30	0.33	5.5	1	-06	600

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

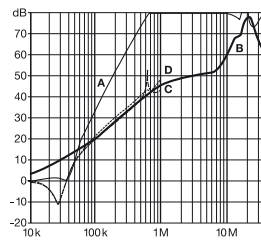
Typical filter attenuation

Per CISPR 17; A = 50Ω/50Ω sym; B = 50Ω/50Ω asym; C = 0.1Ω/100Ω sym; D = 100Ω/0.1Ω sym

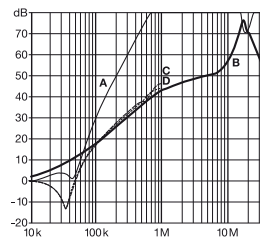
3A types



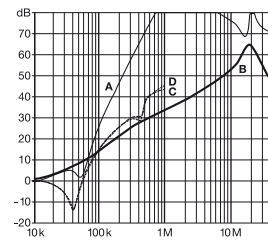
6A types



10A types

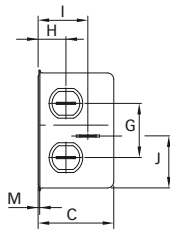
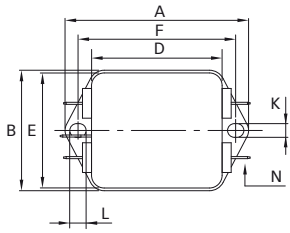


20A types

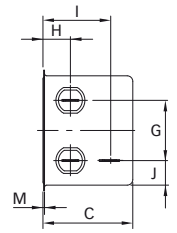
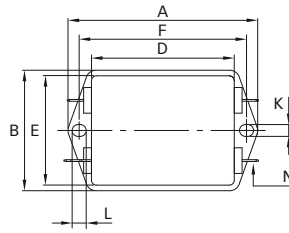


**Mechanical data**

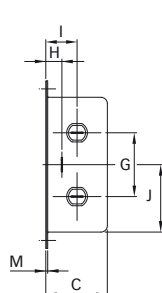
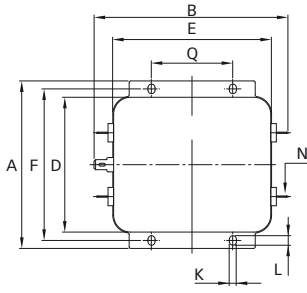
3A types



6 and 10A types



20A types



**Dimensions**

	3A	6A	10A	20A	Tolerances
A	71	85	85	105 ±1	±0.5
B	46.6	54	54	121.6 ±1	±0.5
C	29.3	40.3	40.3	38.6 ±1	±0.5
D	50.5	64	64	84.5 ±1	±0.5
E	44.5	49.8	49.8	98.5 ±1	±0.5
F	61	75	75	95	±0.3
G	21	27	27	40	±0.2
H	10.8	12.3	12.3	19	±0.5
I	19.3	29.8	29.8	9.5	±0.5
J	20.1	11.4	11.4	49.2	±0.5
K	5.3	5.3	5.3	4.4	
L	6.3	6.3	6.3	6	
M	0.7	0.7	0.7	1.2	
N	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	
Q				51	

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