1-phase filters
FN 9675

Compact performance EMI filter

schaffner
energy efficiency and reliability

- **Rated currents from 3 to 16A**
- **Economic high performance filter**

Approvals

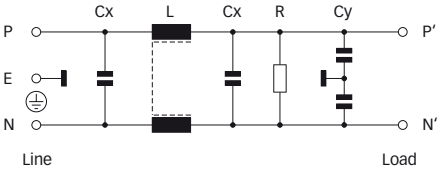
RoHS 2002/95/EC

Technical specifications

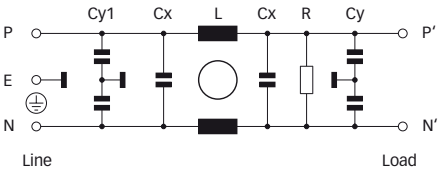
Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	3 to 16A @ 40°C max.
High potential test voltage:	P –> E 2000VAC for 2 sec
	P –> N 760VAC for 2 sec
Temperature range (operation and storage):	-25°C to +100°C (25/100/21)
Flammability corresponding 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):	400,000 hours (FN 9675)
	280,000 hours (FN 9676)

Typical electrical schematic

3 and 6A types



16A types



Features and benefits

- FN 9675 filters are designed for easy and fast chassis mounting.
- FN 9675 offers a economic combination of performance/size ratio.
- All filters provide a high symmetrical and asymmetrical atttenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- Economic high performance filter attenuation suitable to be used in a broad range of applications.
- Faston connection with additional spade solder possibility or screw connection.
- Custom-specific versions on request.

Typical applications

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

Filter selection table

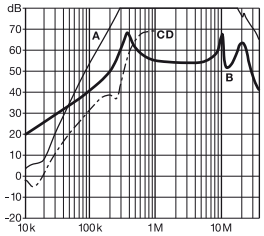
Filter	Rated current @ 40°C (25°C) [A]	Leakage current* @ 230VAC/50Hz [µA]	Inductance L [mH]	Capacitance Cx [nF]	Capacitance Cy [nF]	Capacitance Cy1 [nF]	Resistance R [kΩ]	Input/Output connections		Weight [g]
FN 9675-3-06	3 (3.5)	410	18	680	4.7		470		-06	270
FN 9675-6-06	6 (6.9)	410	3	680	4.7		470		-06	270
FN 9675-16-03	16 (18.4)	410	10.2	1000	4.7		470	-03		850
FN 9676-16-03	16 (18.4)	1900	10.2	1000	15	6.8	470	-03		1050

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

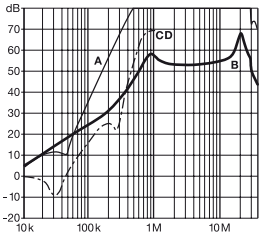
Typical filter attenuation

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

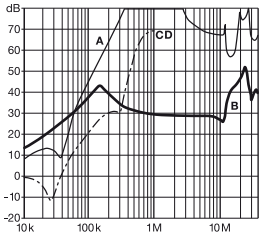
3A types



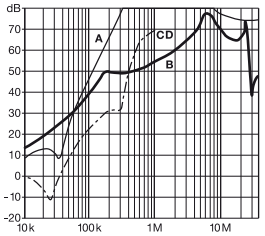
6A types



16A types (FN 9675)

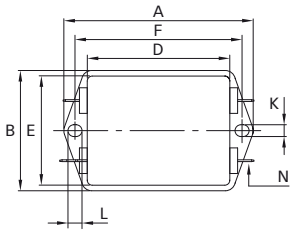


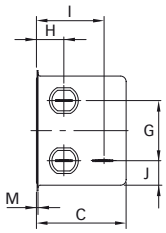
16A types (FN 9676)



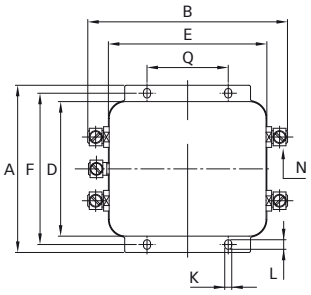
Mechanical data

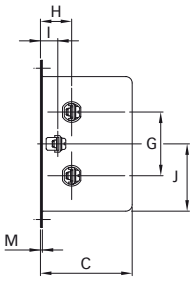
3 and 6A types





16A types





Dimensions

	3A	16A	Tolerances
A	85	105	±0.5
B	54	126	±0.5
C	40.3	57	±1
D	64	84.5	±1
E	49.8	99.5	±0.5
F	75	95	±0.2
G	27	40	±0.5
H	29.8	19	±0.5
I	12	11	±0.5
J	11.4	42.25	±0.5
K	5.3	4.4	
L	6.3	6	
M	0.7	1.2	
N	6.3 x 0.8	UNC 8-32	
Q		51	±0.1

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

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