schaffner
energy efficiency and reliability

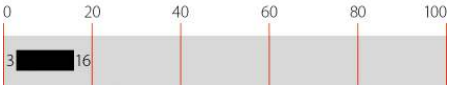
Compact Performance EMI Filter

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

Performance indicators

Attenuation performance

Rated current [A]



Technical specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz
Operating frequency	dc to 400 Hz
Rated currents	3 to 16 A @ 40 °C max.
High potential test voltage	P –> PE 2000 VAC for 2 sec P –> N 760 VAC for 2 sec
Temperature range (operation and storage)	-25 °C to +100 °C (25/100/21)
Flammability corresponding to	UL 94 V-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)

Approvals

RoHS

Features and benefits

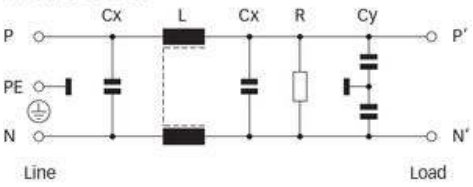
- FN 9675 filters are designed for easy and fast chassis mounting.
- FN 9675 offers a economic combination of performance/size ratio.
- All filters provide a high symmetrical and asymmetrical atttenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- Economic 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

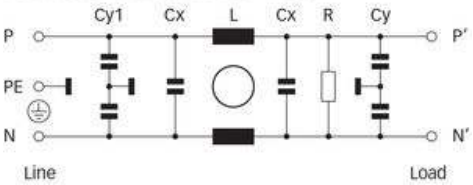
- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Power supplies
- Office automation equipment
- Datacom equipment

Typical electrical schematic

FN 9675-3/-6-06



FN 9675-16-03 and FN 9676-16-03



Filter selection table

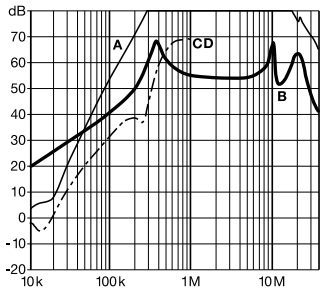
Filter	Rated current @ 40 °C (25 °C)	Leakage current* @ 230 VAC/50 Hz	Inductance L	Capacitance Cx	Capacitance Cy	Capacitance Cy1	Resistance R	Input/Output connections		Weight
	[A]	[µA]	[mH]	[nF]	[nF]	[nF]	[kΩ]			[g]
FN 9675-3-06	3 (3.5)	410	18	680	4.7		470		-06	270
FN 9675-6-06	6 (6.9)	410	3	680	4.7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

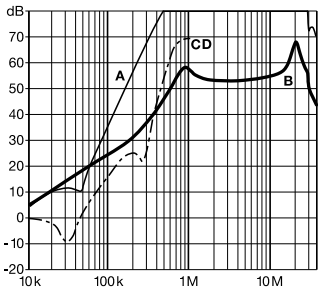
Typical filter attenuation

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

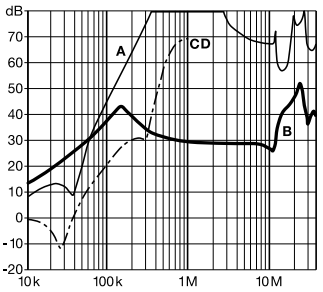
3 A types



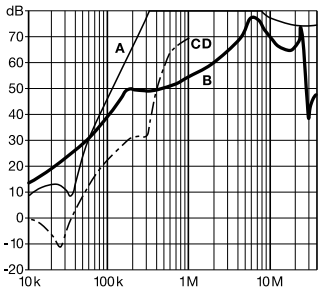
6 A types



16 A types (FN 9675)

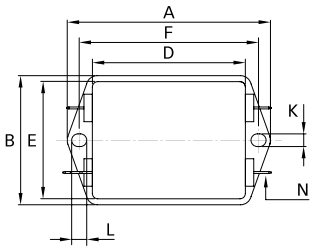


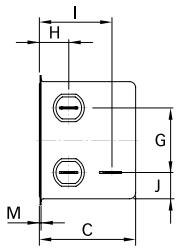
16 A types (FN 9676)



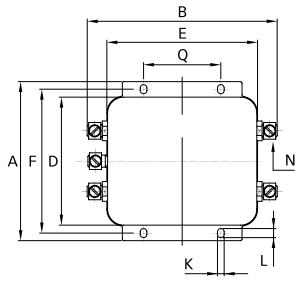
Mechanical data

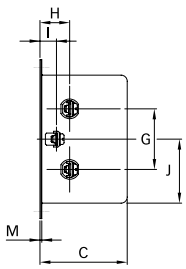
3 and 6 A types





16 A types





Dimensions

	3 A	6 A	16 A	Tolerances
A	85	85	105	±0.5
B	54	54	126	±0.5
C	40.3	54	126	±1
D	40.3	40.3	57	±1
E	64.4	64.4	84.5	±0.5
F	49.8	49.8	99.5	±0.2
G	27	27	40	±0.5
H	12.3	12.3	19	±0.5
I	29.8	29.8	11	±0.5
J	11.4	11.4	42.25	±0.5
K	5.3	5.3	4.4	
L	6.3	6.3	6	
M	0.7	0.7	1.2	
N	6.3 x 0.8	6.3 X 0.8	UNC 8-32	
Q			51	±0.1

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

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