

# Compact performance filter

# FN 9675

- Current ratings from 3 to 16A
- Economic high-performance filter
- Screw or fast-on connections
- Nennströme von 3 bis 16A
- Wirtschaftliches Hochleistungsfilter
- Schraub- oder Steckanschlüsse
- Courants de service de 3 à 16A
- Filtre haute performance peu onéreux
- Connexions par vis ou fast-on



## Filter selection table

Choose the family FN xxx with the required current rating and features, and add /?? to determine input/output (line/load) connection style. Example: FN 9675-3/06 is a 3A filter with fast-on connections.

## Approvals



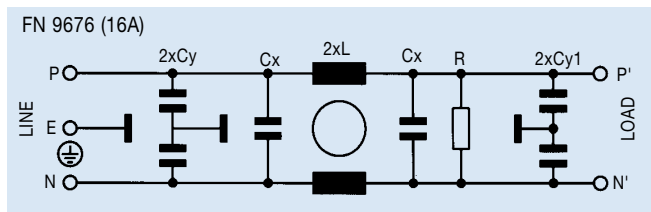
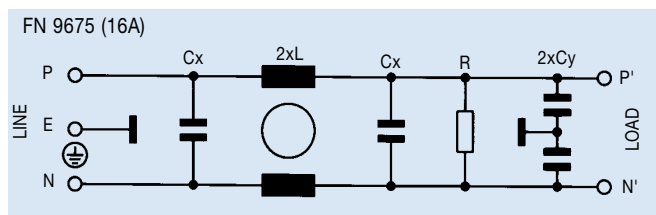
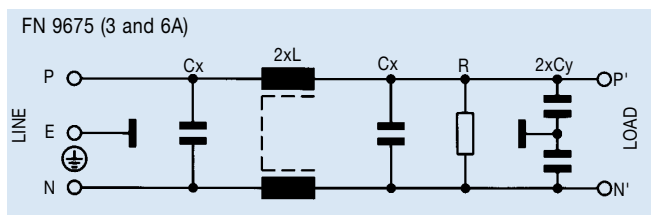
Family	Connections		Current ratings at 40°C (25°) A	Inductance L mH	Capacitance Cx/Cx1 nF	Housing	Weight g
FN 9675 -3 /??		/06	3 (3.5)	18	680/680	K21	270
FN 9675 -6 /??		/06	6 (6.9)	3	680/680	K21	270
FN 9675 -16 /??	/03		16 (18.4)	10.2	1000/1000	L2	850
FN 9676 -16 /??	/03		16 (18.4)	10.2	1000/1000	L2	1050

## Additional specifications

Filter type	Capacitance Cy/Cy1 nF	Res. R MΩ	Maximum leakage μA/phase	Maximum operating voltage		Operating frequency Hz	Hipot test voltage	
				VAC	Hz		PN→E VAC	P→N VDC
FN 9675 types	4.7/-	0.47	410	250	50/60	DC to 400	2000	1700
FN 9676 types	6.8/15	0.47	1900	250	50/60	DC to 400	2000	1700

MTBF at 40°C, 230V, per Mil-HB-217F: 280,000 hours (FN 9675); 400,000 hours (FN 9676).

## Electrical schematics

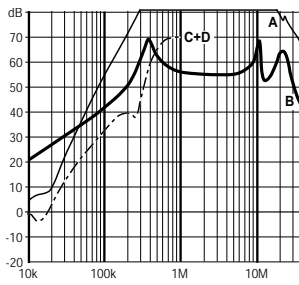


See tables for component values.

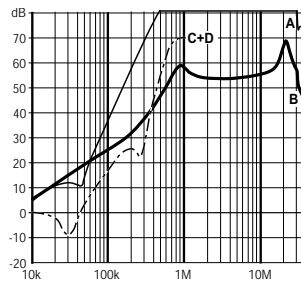
## FN 9675 insertion loss

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

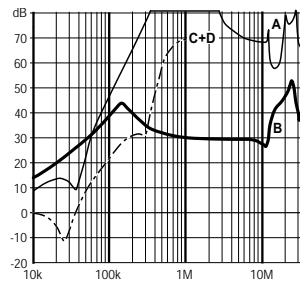
### 3 amp types



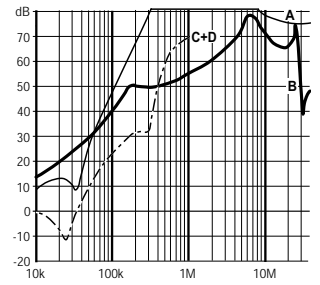
### 6 amp types



### 16 amp FN 9675



### 16 amp FN 9676

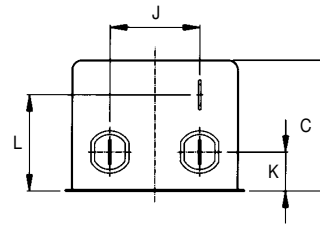


## Mechanical data

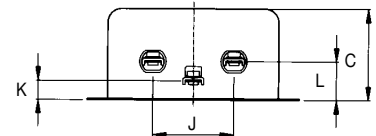
	FN 9675 -3-6	FN 967x -16	Tol.* mm
	K21	L2	
<b>A</b>	85	105	± 0.5
<b>B</b>	54	99.5 ± 1	± 0.5
<b>C</b>	40	57	± 1
<b>D</b>	65	84.5	± 1
<b>E</b>		79	± 0.5
<b>F</b>	75	95	± 0.2
<b>G</b>		51	± 0.1
<b>J</b>	27	40	± 0.5
<b>K</b>	12	11	± 0.5
<b>L</b>	29.5	19	± 0.5
<b>M</b>	5.3	4.4	± 0.1
<b>N</b>	6.3	6	± 0.1

\* Measurements share this common tolerance unless otherwise stated.

### Front view

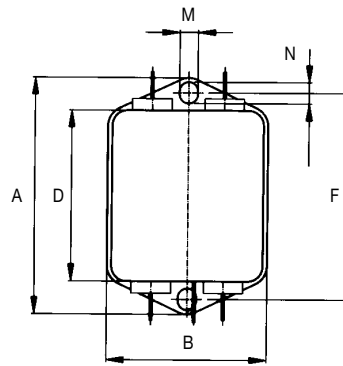


Housing K21

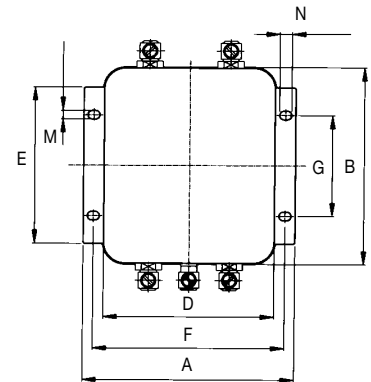


Housing L2

### Top view



Housing K21



Housing L2

All dimensions in mm; 1 inch = 25.4 mm