

Compact feedthrough chassis-mounting filter

SCHAFFNER

FN 2101 / FN 2102

- 3 to 16A current ratings
- X1 capacitors for extra immunity to high voltage transients
- performance maintained at high frequencies
- additional choke option for higher differential-mode attenuation
- Nennströme von 3 bis 16 A
- X1-Kondensator für äußerste Störfestigkeit gegen hohe Spannungs-Transienten
- Leistung wird auch bei hohen Frequenzen beibehalten
- Optional zusätzliche Drossel für eine höhere Gegentakt-Dämpfung
- De 3 à 16 A
- Condensateurs X1 pour une immunité supplémentaire aux transitoires haute tension
- Performances maintenues aux hautes fréquences
- Self en option pour une atténuation supérieure en mode différentiel



Technical specifications

Maximum operating voltage: 250VAC at 60°C

Maximum operating frequency: DC to 400Hz at 60°C

Hipot test voltage: PN→E 2000VAC; P→N 1200VAC

MTBF at 60°C, 230V per Mil-HB-217F: FN 2101 1,384,000 hours; FN 2102 945,000 hours

Temperature range: -25°C to +100°C

Flammability class: UL 94V2

Approvals

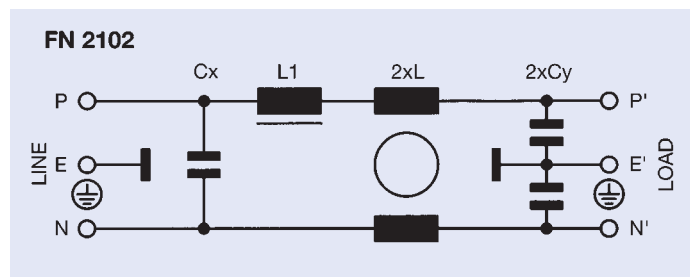
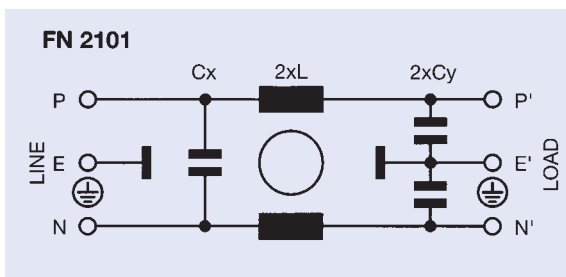


Filter	Current ratings at 60°C* (25°C) A	Leakage current (230V/50Hz) mA/phase	Power loss max. W	L mH	Component values			Weight g
					L1 μH	Cx μF	Cy nF	
FN 2101-3/06	3 (4.0)	0.29	0.92	2.5	-	0.1	3.3	52
FN 2101-6/06	6 (8.2)	0.29	1.36	0.69	-	0.1	3.3	52
FN 2101-10/06	10 (13.6)	0.29	1.64	0.23	-	0.1	3.3	55
FN 2101-16/06	16 (19.6)	0.29	3.1	0.12	-	0.1	3.3	57
FN 2102-3/06	3 (4.0)	0.29	1.44	1.45	93	0.1	3.3	60
FN 2102-6/06	6 (8.2)	0.29	1.8	0.5	21	0.1	3.3	62
FN 2102-10/06	10 (13.6)	0.29	2.4	0.14	9.8	0.1	3.3	66
FN 2102-16/06	16 (19.6)	0.29	4.0	0.048	2.8	0.1	3.3	66

*16A types at 50°C approved

Note: the line side of the filter is always fitted with wire terminals.

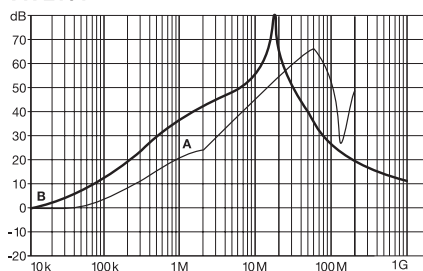
Electrical schematics



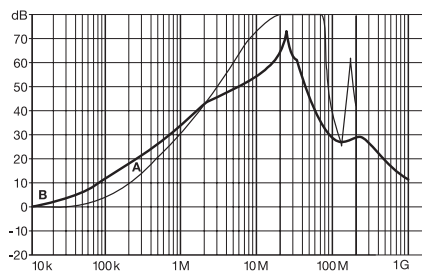
FN 2101 / FN 2102 insertion loss

Per CISPR 17; A = 50Ω/50Ω sym, B = 50Ω/50Ω asym

FN 2101

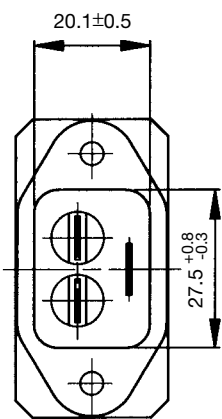


FN 2102

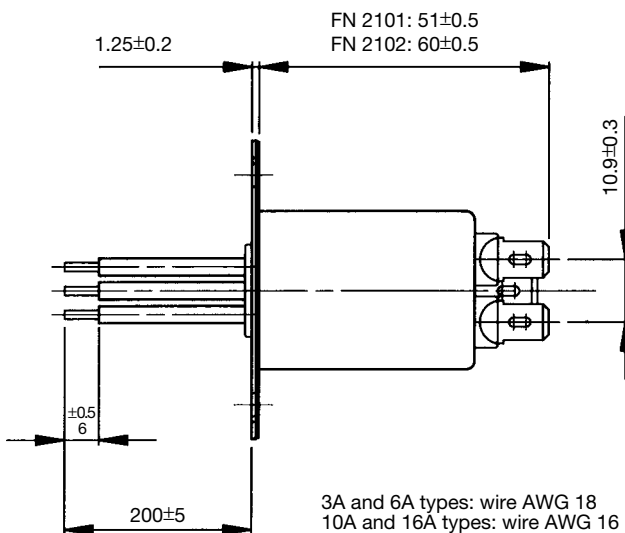


Mechanical data

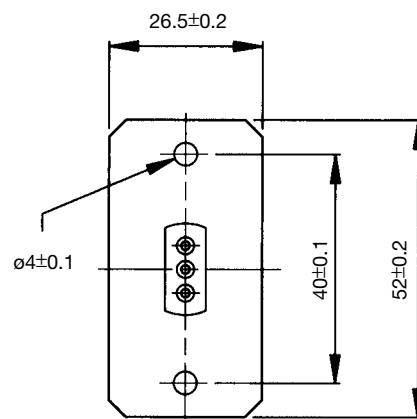
FRONT



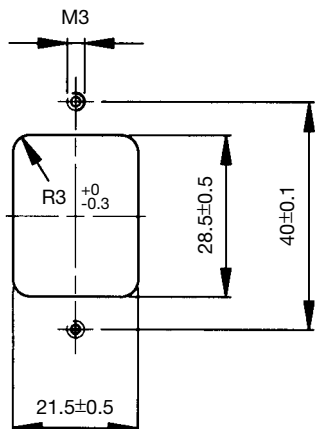
SIDE



END



PANEL CUT-OUT



All dimensions in mm; 1 inch = 25.4 mm