

EMC-RFI Suppression Filters 1-phase systems

FGS Series, combi-filters to Protection Class I, conform to EN 133200, UL 1283 and IEC 950

Nominal current: 1 - 10 A @ ϑ_a 40°C
Nominal voltage (max.): 250 VAC 50/60 Hz
Attenuation: Standard
Leakage current: for Standard and Medical applic.
Test voltage: L/N → E 2.7 kVDC, 2 sec
 L → N 1.7 kVDC, 2 sec
Climatic category: 25/085/21 acc. to IEC 68-1
50% saturation typ.: 2 to 3 x I_N @ 20°C
Inrush current: 1.5 x I_N 1 min. per hour
MTBF @ 40°C / U_{max} : > 200'000 h acc. to MIL-HB-217 F

Approval obtained
or pending:



FGS Mains compact filter for universal application equipments and systems according to the Protection Class I.

Direct metallic contact of the mounting flanges to the chassis ensures that the attenuation at higher frequencies range in guaranteed.

Special versions available:

- Medical versions with leakage current < 5μA or < 80μA
- Installation category III (IEC 664)

Technical Data

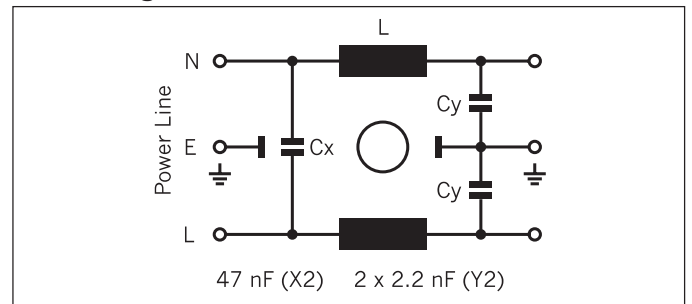
Type	I_N (1) @ ϑ_a 40°C [A]	U_{max} [V]	L_N (2) -30% / +50% [mH]	Leakage current (3) @ 250 V/50 Hz [mA]
FGS2-44-1/I	1	250V 50/60 Hz	2 x 10	< 0.5
FGS2-44-2/I	2		2 x 4	< 0.5
FGS2-44-4/I	4		2 x 1.5	< 0.5
FGS2-44-6/I	6		2 x 0.8	< 0.5
FGS2-44-10/I	10		2 x 0.3	< 0.5

(1) Current derating over 40°C : $I = I_N \times \sqrt{(85 - \vartheta_a)/45}$

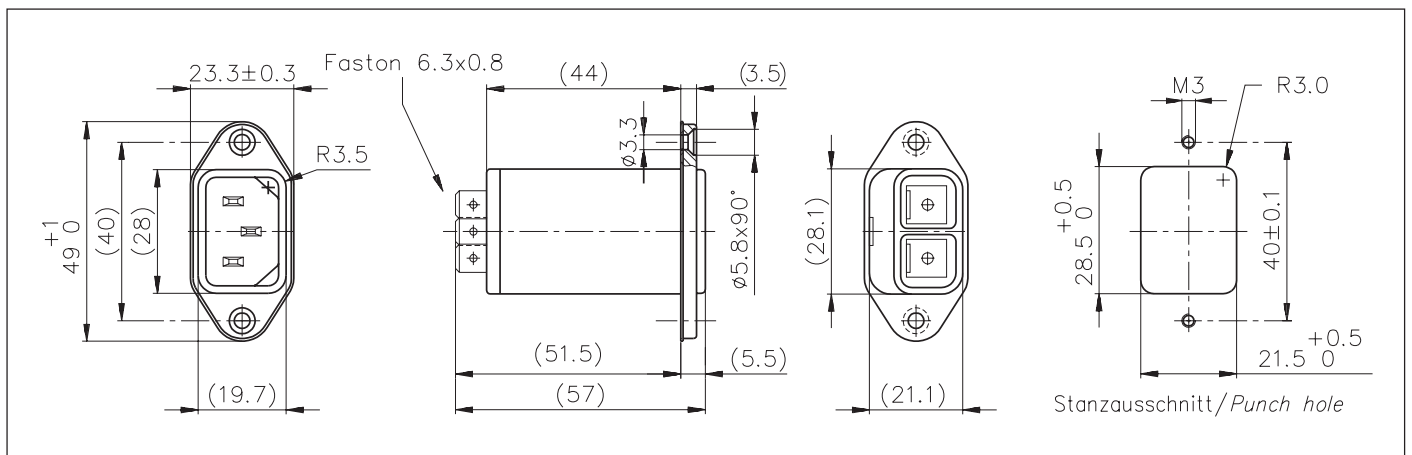
(2) Nominal inductance measured according to EN 138100, see introduction of this catalog, paragraph 3.4

(3) Measured according to IEC 950 5.2.3 Annex D, see introduction of this catalog, paragraph 3.5

Circuit diagram



Mechanical dimensions



Attenuation loss (typical) FGS / FGS... IL / FGS... IF

