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TECHNOLOGY GROUP

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EMC-RFI Suppression Filters 1-phase systems

FKH/FKI Series, combi-filters to Protection Class I, conform to EN 133200, UL 1283 and IEC 60950

Nominal current: **1 - 10 A @ ϑa 40°C**
Rated voltage U_R (U_{max}): **250 VAC 50/60 Hz**
Attenuation: **Medium**
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 60068-1**
Degree of protection : **IP 40 (operating face)**
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_R (U_{max}): **> 200'000 h acc. to MIL-HB-217 F**

*without resistor

Approvals: SEV CCA-NTR EN 133200 VDE cULus



Also available Version FKx2-50-y/I-A with aluminium-case !

Combi-filter 1-stage with 2-pole switch, drawer for 1 or 2 fuses 5 x 20 mm,connector conforms to IEC 60320-1/C14.

The new FK filter line has been developed to meet the stringent requirements encountered in the design and manufacture of modern electronic equipment and instrumentation, having high attenuation over a very broad frequency range.

The wide product range offers various combinations:

FKE connector + drawer for 1 fuse 5 x 20 mm
FKF connector + drawer for 2 fuses 5 x 20 mm
FKS connector + 1-pole switch
FKT connector + 2-pole switch
FKH connector + 2-pole switch + drawer for 1 fuse 5 x 20 mm
FKI connector + 2-pole switch + drawer for 2 fuses 5 x 20 mm
FKG connector + 2-pole switch without fuses upon request

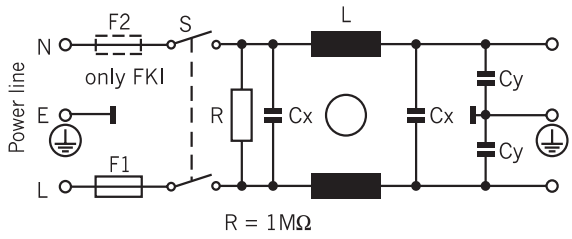
Special versions for medical applications are also available.

Technical Data

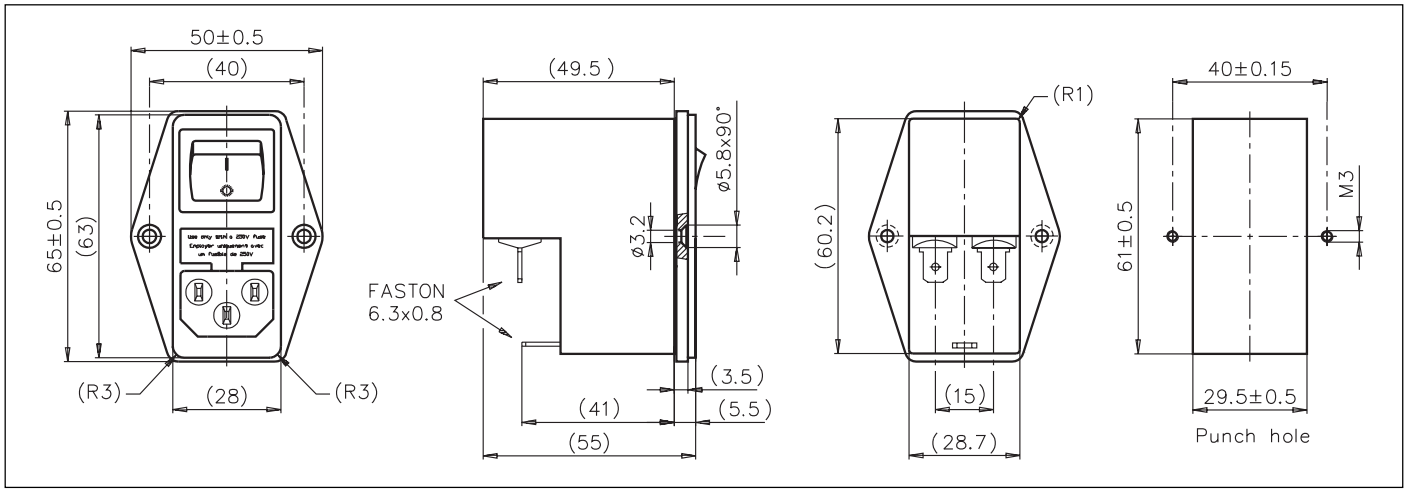
Type	I_N (1) @ ϑa 40°C [A]	U_R (U_{max}) [V]	L_N (2) -30% / +50% [mH]	Leakage curr. (3) @ 250 V / 50 Hz [mA]	Cx [nF]	Cy [nF]	Fuse insert F1	F2
FKH2-50-1/I	1	50/60 Hz	2 x 10	< 0.25	68	2.2	5x20	—
FKH2-50-2/I	2		2 x 4	< 0.25	68	2.2	5x20	—
FKH2-50-4/I	4		2 x 1.5	< 0.25	68	2.2	5x20	—
FKH2-50-6/I	6		2 x 0.8	< 0.25	68	2.2	5x20	—
FKH2-50-10/I	10		2 x 0.3	< 0.25	68	2.2	5x20	—
FKI2-50-1/I	1	250V	2 x 10	< 0.25	68	2.2	5x20	5x20
FKI2-50-2/I	2		2 x 4	< 0.25	68	2.2	5x20	5x20
FKI2-50-4/I	4		2 x 1.5	< 0.25	68	2.2	5x20	5x20
FKI2-50-6/I	6		2 x 0.8	< 0.25	68	2.2	5x20	5x20
FKI2-50-10/I	10		2 x 0.3	< 0.25	68	2.2	5x20	5x20

(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 60950 5.2.3 Annex D, see introduction of this catalog, paragraph 3.5

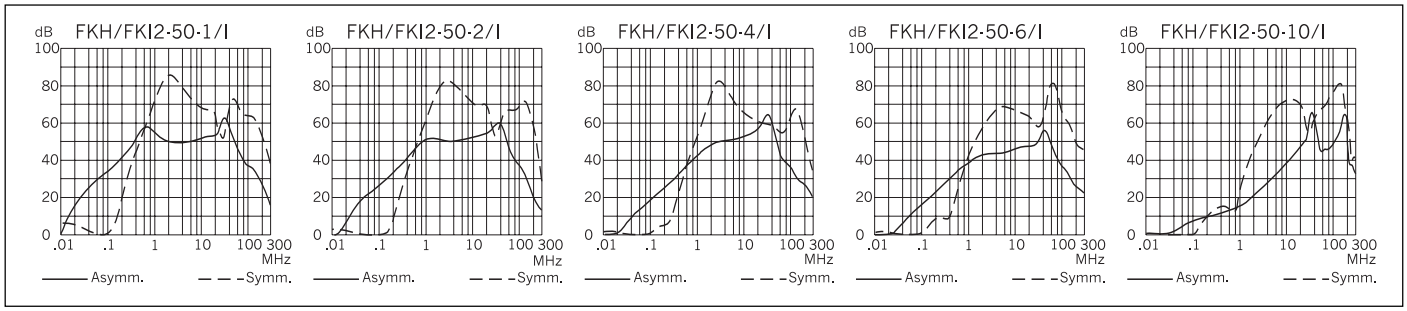
Circuit diagram FKH (FKI)



Mechanical dimensions FKH / FKI



Insertion loss (typical) FKH / FKI



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