

# EMC-RFI Suppression Filters 1-phase systems

**FKE/FKF Series, combi-filters to Protection Class I, conform to EN 133200, UL 1283 and IEC 60950**

**Nominal current:** 1 - 10 A @  $\vartheta_a$  40°C  
**Rated voltage  $U_R$  ( $U_{max}$ ):** 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 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

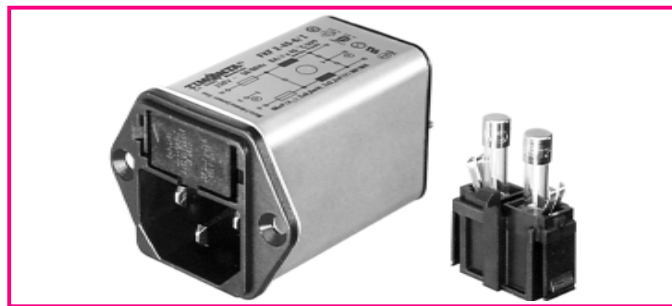
Approvals:



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

The new FK filter line from TIMONTA 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 + 1 fuse 5 x 20 mm  
**FKI** connector + 2-pole switch + 2 fuses 5 x 20 mm  
 Special versions for medical applications are also available.

## Technical Data

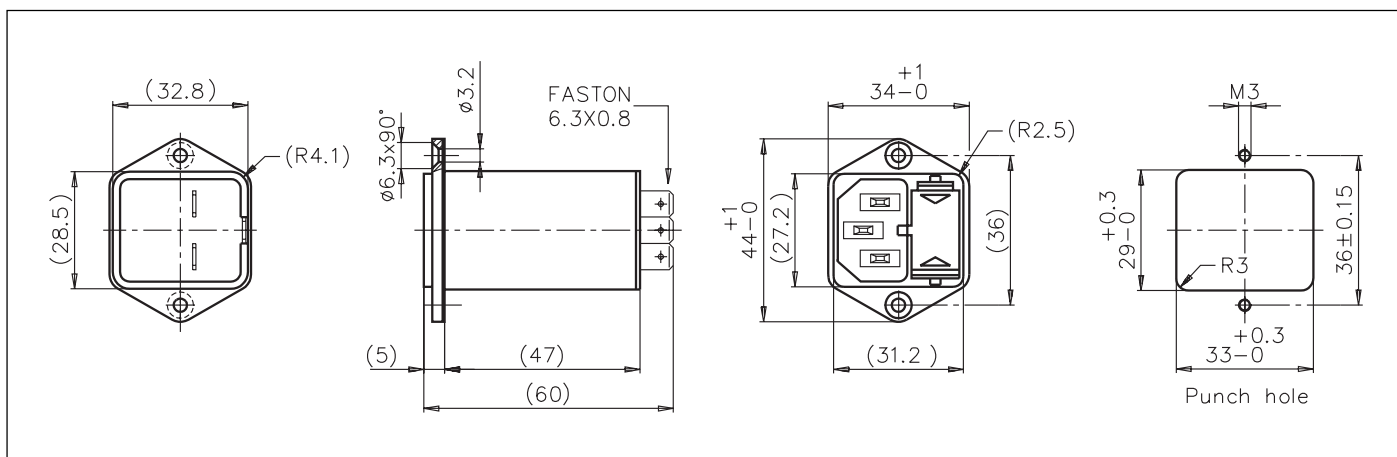
Type	$I_N$ (1) @ $\vartheta_a$ 40°C [A]	$U_R$ ( $U_{max}$ ) [V]	$L_N$ (2) -30%/+50% [mH]	Leakage current @ 250 V/50 Hz [mA] (3)	Cx [nF]	Cy [nF]	Fuse insert F1 F2
FKE2-45-1/I	1	250V 50/60 Hz	2 x 10	< 0.25	68	2.2	5x20 —
FKE2-45-2/I	2		2 x 4	< 0.25	68	2.2	5x20 —
FKE2-45-4/I	4		2 x 1.5	< 0.25	68	2.2	5x20 —
FKE2-45-6/I	6		2 x 0.8	< 0.25	68	2.2	5x20 —
FKE2-45-10/I	10		2 x 0.3	< 0.25	68	2.2	5x20 —
FKF2-45-1/I	1		2 x 10	< 0.25	68	2.2	5x20 5x20
FKF2-45-2/I	2		2 x 4	< 0.25	68	2.2	5x20 5x20
FKF2-45-4/I	4		2 x 1.5	< 0.25	68	2.2	5x20 5x20
FKF2-45-6/I	6		2 x 0.8	< 0.25	68	2.2	5x20 5x20
FKF2-45-10/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

## Mechanical dimensions FKE / FKF



## Insertion loss (typical) FKE / FKF

