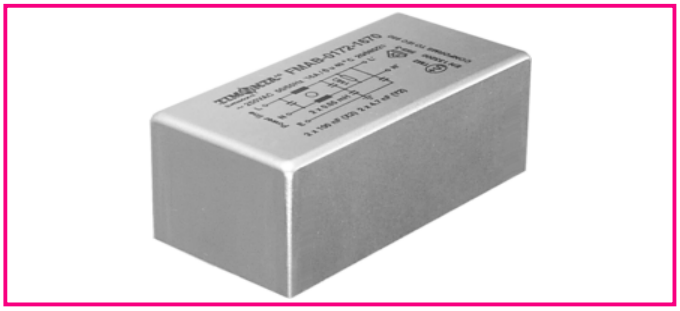
EMC-Power Line Filters

FMAB-0172- Series, PCB-mounted all pourpose filters in aluminium case to Protection Class I, conform to EN 133200, UL 1283 and IEC 60950



Nominal current:	**2 - 16 A @ ϑa 40°C**
Rated voltage U_R (U_{max}):	**250 VAC 50/60 Hz**
Attenuation:	**Standard**
Leakage current:	**for Standard and Medical appl.**
Test voltages:	**L/N → E 2.7 kVDC, 2 sec** **L → N 1.7 kVDC, 2 sec ***
Climatic category:	**25/100/21 acc. to IEC 60068-1**
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_R (U_{max}):	**> 200'000 h acc. to MIL-HB-217 F**

*without resistor

Approval obtained or pending: SEV CCA-NTR EN 133200, VDE, cULus

Space saving filters for direct mounting on printed circuit boards. Generally used as protection against interference voltage from the mains but, at the same time, possible interferences generated in the equipment are also attenuated. They must be mounted inside the equipment as close as possible to the mains input.
Aluminium case provides a good shielding.

Special version, available on request (min. order quantity):

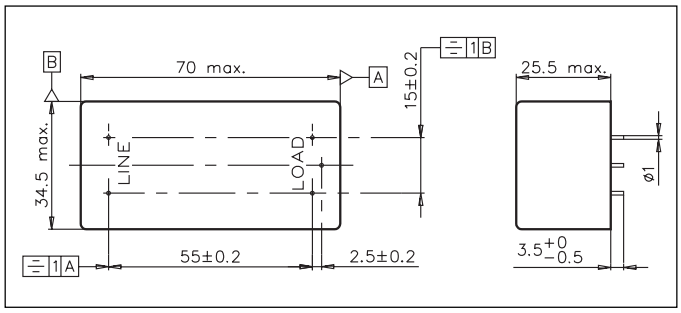
- Medical versions with leakage current < 5µA or < 80µA

Technical Data

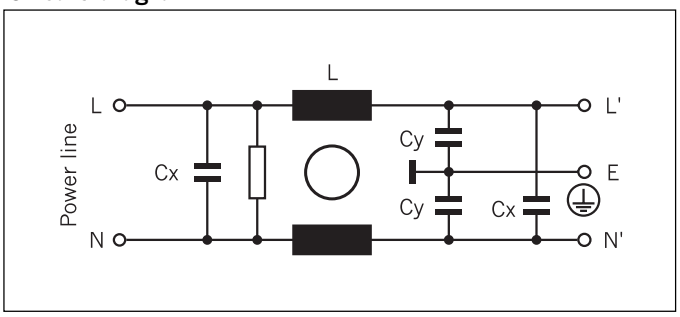
Type	I_N (1) @ ϑa 40 °C [A]	U_R (U_{max}) [V]	L_N (2) -30% / +50% [mH]	Leakage current (3) @ 250 V/50 Hz [mA]	Cx(X2) [nF]	Cy(Y2) [nF]	R [MΩ]	Case
FMAB-0172-0270	2	250 V 50/60 Hz	2 x 8	<0.5	100	4.7	1	72
FMAB-0172-0470	4		2 x 3.5	<0.5	100	4.7	1	72
FMAB-0172-0670	6		2 x 1.8	<0.5	100	4.7	1	72
FMAB-0172-1070	10		2 x 0.82	<0.5	100	4.7	1	72
FMAB-0172-1670	16		2 x 0.65	<0.5	100	4.7	1	72

(1) Current derating over 40°C : $I = I_N \times \sqrt{(100-\vartheta a)/60}$
(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

Case



Circuit diagram



Insertion loss