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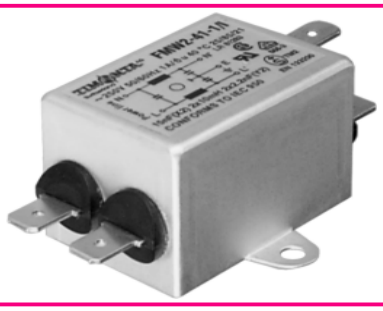
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EMC Interference Suppression Filters for 1-phase systems

FMW2-41 Series, all-purpose 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: 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: 25/085/21 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



Approvals: SEV CCA-NTR EN 133200 VDE UL CSA

The «FMW2» filter-line offers a wide range of filters with diverse types of technical characteristics, suitable for various kinds of applications, see following pages.

FMW2-41 filters for normal use, to Protection Class I.

These filters are generally used as protection against interference voltages from the mains, and are mounted inside the equipment as close as possible to the mains input. At the same time possible interferences generated in the equipment are strongly attenuated and therefore will not reach the mains.

Special versions are available on request (min. order quantity):

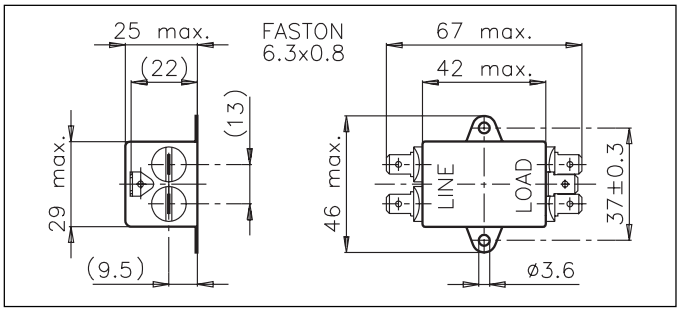
- Medical versions with leakage current < 5µA or < 80µA
- Version with ZNR-varistor for overvoltage protection

Technical Data

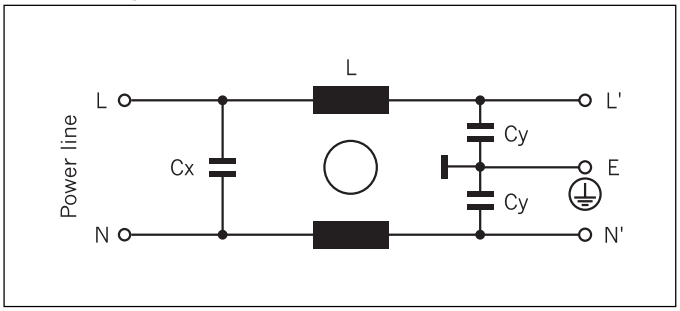
Type	I_N (1) @ ϑa 40°C [A]	U_R (U_{max}) [V]	L_N (2) -30% / +50% [mH]	Leakage current (3) @ 250 V/50 Hz [mA]	Cx(X2) [nF]	Cy(Y2) [nF]	Case
FMW2-41-1/I	1	250 V 50/60 Hz	2 x 10	< 0.25	15	2.2	41
FMW2-41-3/I	3		2 x 2	< 0.25	15	2.2	41
FMW2-41-6/I	6		2 x 0.8	< 0.25	15	2.2	41
FMW2-41-10/I	10		2 x 0.4	< 0.25	15	2.2	41

(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

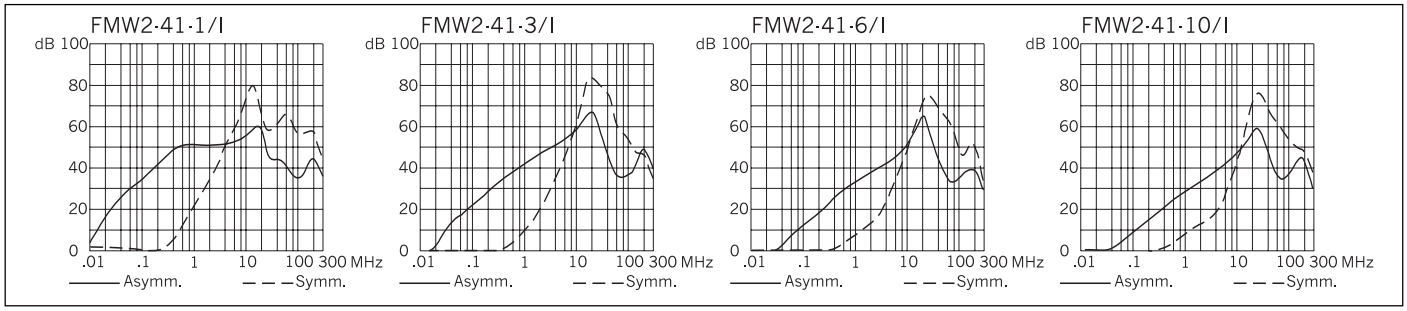
Case 41



Circuit diagram



Insertion loss



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