

EMC-Power Line Filters for 1-Phase Systems

FMW2 Series, all-purpose filters to Protection Class I, for higher currents, conform to EN 133200, UL 1283 and IEC 60950

Nominal current: 10 – 20 A @ 40 °C
 Rated voltage U_R (U_{max}): 125/250 VAC 50/60 Hz
 Attenuation: Standard
 Leakage current: for Standard and Industrial applications
 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:



Important feature of this line is the very compact construction. Leakage current 0.25mA to 2.1mA make these filters suitable for use in «stationary» or «mobile» applications.

Order Numbers and Technical Data

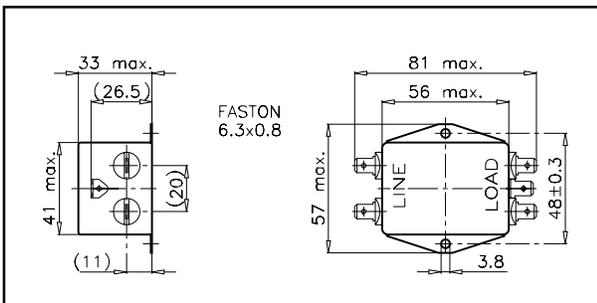
Type FMW2	I_N (1) @ ϑ_a 40 °C [A]	U_R (U_{max}) [VAC]	L_N (2) -30% / +50% [mH]	Leakage current (3) @ 250 V / 50 Hz [mA]	C_x (X2) [nF]	C_y (Y2) [nF]	Case
5500.2045	10	250	2 x 1	< 0.25	68	2.2	10
5500.2046	10	250	2 x 1	< 2.1	68	22	10
5500.2047	20	250	2 x 0.15	< 2.1	68	22	10

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

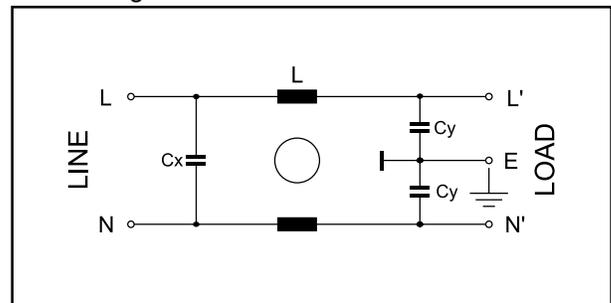
(2) Nominal inductance measured according to EN 138100, see introduction of this catalog, paragraph 3.4

(3) Measured according to IEC 60950 5.2.3 Annex D, see introduction of this catalog, paragraph 3.5

Case 10



Circuit diagram



Insertion loss

