

IEC Inlet Filters

F.MA-F.MB-F.MC-F.MD series

With fuse holders and mains switch

A range of compact IEC 60320 inlet power entry modules combining 1 or 2 fuse holders for US and IEC fuses. Plus a unipolar or bipolar rocker switch.

Designed for use in business, consumer and medical equipment, VDU's, vending machines and many other general purpose applications.

- Current ratings from 1A to 6A
- Integral single or twin fuse holder
- Unipolar or bipolar rocker switch
- Snap-in or screw mount versions
- Medical versions available

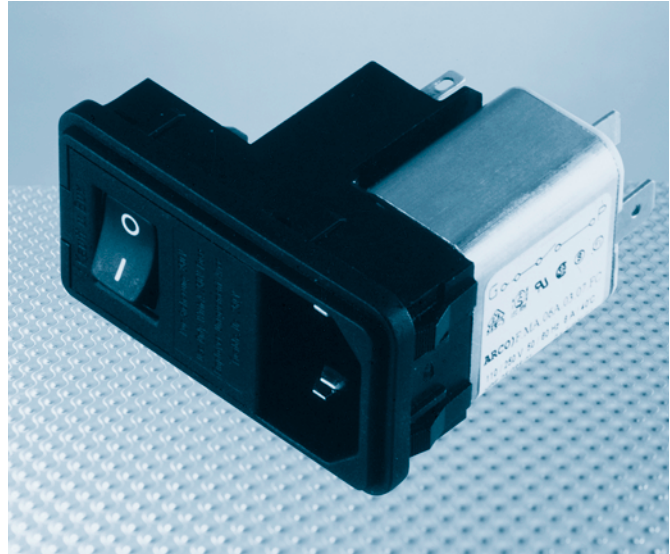
Mechanical Specifications

Manufacture: metal case with built-in power line connector according to IEC 60320,
1 (F.MA-F.MC) or 2 (F.MB-F.MD) fuse holders for fuses 5 x 20mm (IEC) or 6.3 x 32mm (US),
unipolar (F.MA-F.MB) or bipolar (F.MC-F.MD) rocker switch;
internal components sealed with self-extinguishing resin.

Connections: IEC 60320 - Standard plug (INPUT);
faston 6.3 x 0.5mm or 2.8 x 0.5mm for filter output terminals;
faston 2.8 x 0.5mm for fuse terminals;
faston 4.8 x 0.8mm for rocker switch terminals;
ground terminal connected to case.

Electrical Specifications

Rated voltage (V_R): max 250V, 50/60Hz
Rated current (I_R): referred to room temperature = 40°C
Leakage current (I_L): at 220V, 50Hz, max value
Voltage test ($2s$): line to ground 3000Vdc or 1800Vdc
line to line 1700Vdc
Climatic category: HPF (25/085/21);
Temperature range: -25°C to +85°C
Rocker switches: 6(4)A / 250Vac (Rated current),
50000 on-off operations;
10(4)A / 250Vac (Rated current),
10000 on-off operations;
values in () relate to the inductive current;
inrush current test according to UL 1054 (35A).



Filter Range

(example pt no. - F.MA.01A.01.07.FA)

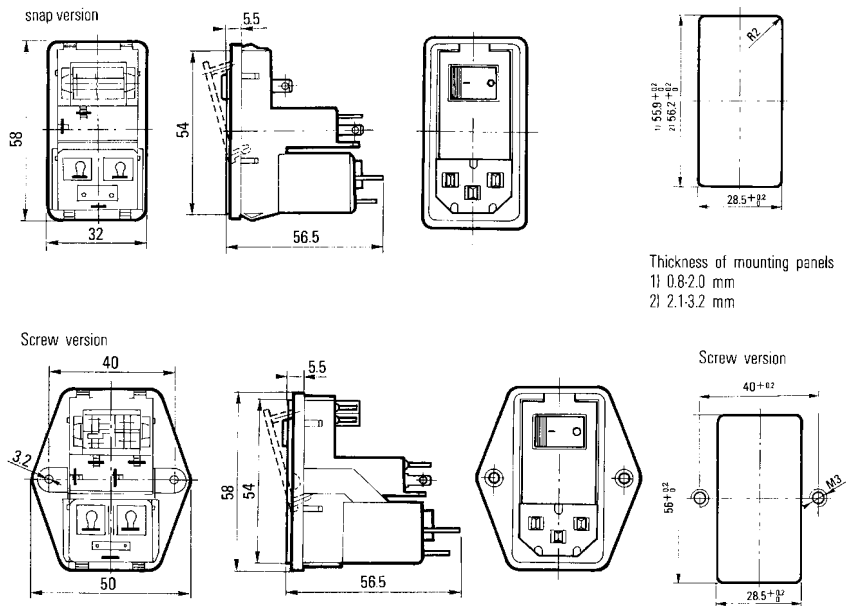
Code		I_R (A)	L (mH)	Cx (μ F)	Cy (pF)	I_L (mA)	R (M Ω)
F.MA.	01A.	01.-.-.-	1	2 x 10	0.047	2 x 2500	2 x 0.23
		04.-.-.-				2 x 0.002	
		07.-.-.-				2 x 0.002	1
F.MB.	03A.	02.-.-.-	3	2 x 2.5	0.047	2 x 2500	2 x 0.23
		05.-.-.-				2 x 0.002	
		08.-.-.-				2 x 0.002	1
F.MC.	06A.	03.-.-.-	6	2 x 1	0.047	2 x 2500	2 x 0.23
		06.-.-.-				2 x 0.002	
		09.-.-.-				2 x 0.002	1

A = Filter output terminals 2.8 x 0.5mm
C = Filter output terminals 6.3 x 0.8mm
F = Snap-in mounting
G = Screw mounting
07 = Fuse 5 x 20mm
14 = Fuse 6.3 x 32mm
A = 1 Fuse + unipolar rocker switch
B = 2 Fuses + unipolar rocker switch
C = 1 Fuse + bipolar rocker switch
D = 2 Fuses + bipolar rocker switch

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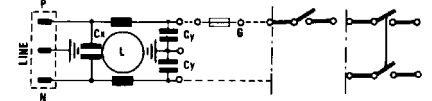
F.MA-F.MB-F.MC-F.MD series

Dimensions (mm) and connections

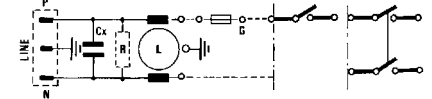


Circuit diagram

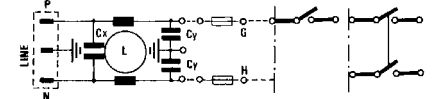
F.MA / F.MC



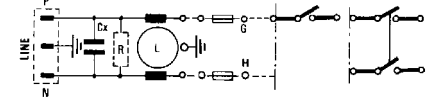
F.MA / F.MC (for medical equipments)



F.MB / F.MD



F.MB / F.MD (for medical equipments)



--- External connections

Insertion loss (typical): — Asymmetrical (line to ground) with C_y ----- Asymmetrical (line to ground) without C_y - - - Symmetrical (line to line)

