

IEC Inlet Filters F.MH-F.MK-F.ML-F.MM-F.MP-F.MQ-F.MR-F.MS series

With fuse holder, bipolar switch and voltage selector

This series gives a high level of suppression within a compact enclosure. The IEC 60320 inlet power entry module combines 1 or 2 fuse holders for US and IEC fuses, with a bipolar rocker switch, earth choke and input voltage selector.

Designed for use in business, consumer, test and medical equipment for international markets.

- Current ratings from 1A to 6A
- Comprehensive range of filter performance options
- Integral single or twin fuse holder
- Optional voltage selector
- Optional earth line choke
- Horizontal or vertical mounting
- Medical versions available

Mechanical Specifications

Manufacture: metal case with built-in power line connector according to IEC 60320, fuse holder for 1 fuse (F.MH. - F.ML. - F.MP. - F.MR) or 2 fuses (F.MK. - F.MM. - F.MQ. - F.MS) 5 x 20mm (IEC) or 6.3 x 32mm (US), bipolar rocker switch, voltage selector 110/220Vac (F.MH - F.MK - F.ML - F.MM only); internal components sealed with self-extinguishing resin.

Connections: IEC 60320 - Standard plug (INPUT); faston 6.3 x 0.8mm (OUTPUT); ground terminal connected to case.

Mounting: F.MH, F.MK, FML, FMM versions now available in vertical mounting version - (F.**.*.***.**.010) with no approvals.

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 1800Vac
line to line 1700Vdc

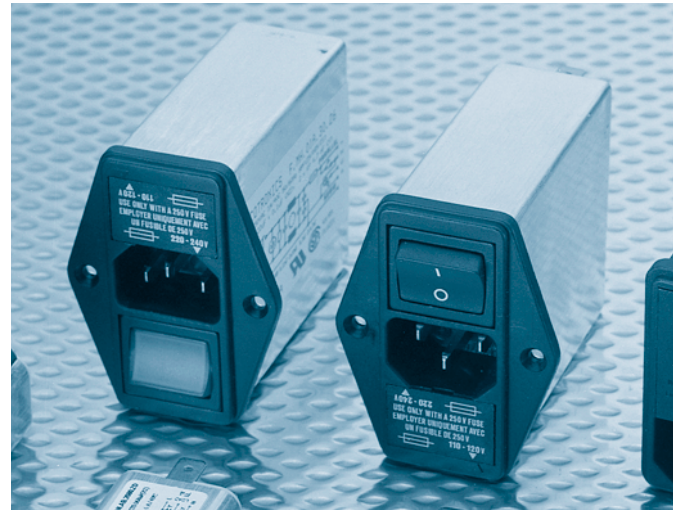
Climatic category: HPF (25/085/21);

Temperature range: -25°C to +85°C

Bipolar rocker 10(4)A / 250Vac (Rated current),

Switches: 50000 on-off operations;
values in () relate to the inductive current;
inrush current test according to UL 1054 (35A).

Voltage selector: 110-220Vac (F.MH - F.MK - F.ML - F.MM only).



Filter Range

(example pt no. - F.MH.01A.20.25)

Code	I_R (A)	L_1 (mH)	L_2 (mH)	C_{X1} (μF)	C_{X2} (μF)	C_Y (pF)	I_L (mA)	R (M Ω)	
F.MH. F.MK. ■ F.MQ. ▲ F.MS.	01A	20.-	2 x 10			2 x 4700	2 x 0.43	0.33	
		24.-	1	2 x 10	0.22	0.1	2 x 0.003		
		30.-	2 x 22			2 x 4700	2 x 0.43		
		34.-	2 x 22				2 x 0.003		
	2A5	21.-	2 x 2				2 x 4700	2 x 0.43	0.33
		25.-	2.5	2 x 2	0.22	0.1	2 x 0.003		
		31.-	2 x 8				2 x 4700	2 x 0.43	
		35.-	2 x 8				2 x 0.003		
	04A	22.-	2 x 1				2 x 4700	2 x 0.43	0.33
		26.-	4	2 x 1	0.22	0.1	2 x 0.003		
		32.-	2 x 8				2 x 4700	2 x 0.43	
		36.-	2 x 8				2 x 0.003		
06A	23.-	2 x 1				2 x 4700	2 x 0.43	0.33	
	27.-	6	2 x 1	0.22	0.1	2 x 0.003			
	33.-	2 x 2.5				2 x 4700	2 x 0.43		
	37.-	2 x 2.5				2 x 0.003			
F.ML. F.MM. ■ F.MP. ▲ F.MR.	01A	20.-	2 x 10	●		2 x 4700	2 x 0.43	0.33	
		24.-	1	2 x 10	0.65	0.22	0.1		2 x 0.003
		30.-	2 x 22				2 x 4700		2 x 0.43
		34.-	2 x 22				2 x 0.003		
	2A5	21.-	2 x 2	●			2 x 4700	2 x 0.43	0.33
		25.-	2.5	2 x 2	0.65	0.22	0.1	2 x 0.003	
		31.-	2 x 8				2 x 4700	2 x 0.43	
		35.-	2 x 8				2 x 0.003		
	04A	22.-	2 x 1	●			2 x 4700	2 x 0.43	0.33
		26.-	4	2 x 1	0.65	0.22	0.1	2 x 0.003	
		32.-	2 x 8				2 x 4700	2 x 0.43	
		36.-	2 x 8				2 x 0.003		
06A	23.-	2 x 1	●			2 x 4700	2 x 0.43	0.33	
	27.-	6	2 x 1	0.65	0.22	0.1	2 x 0.003		
	33.-	2 x 2.5				2 x 4700	2 x 0.43		
	37.-	2 x 2.5				2 x 0.003			

■ No approvals, Circuit Diagram D

▲ No approvals, Circuit Diagram C

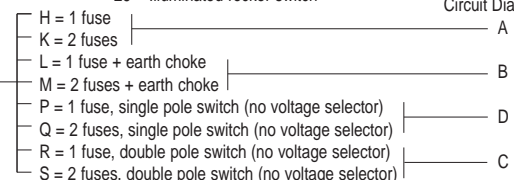
● Not applicable to FMP,FMR

.010 = Vertical mounting option (addition to standard pt no.)

25 = Rocker switch

26 = Illuminated rocker switch

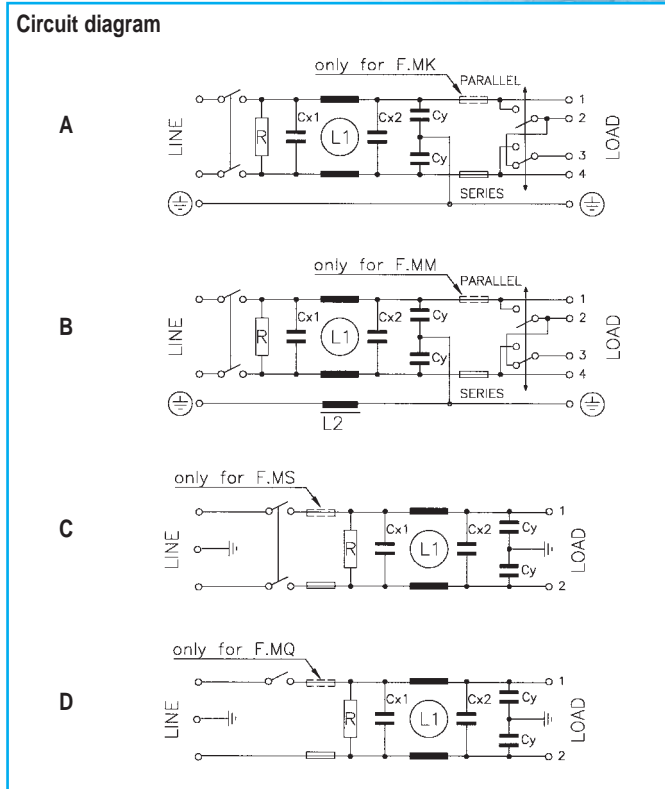
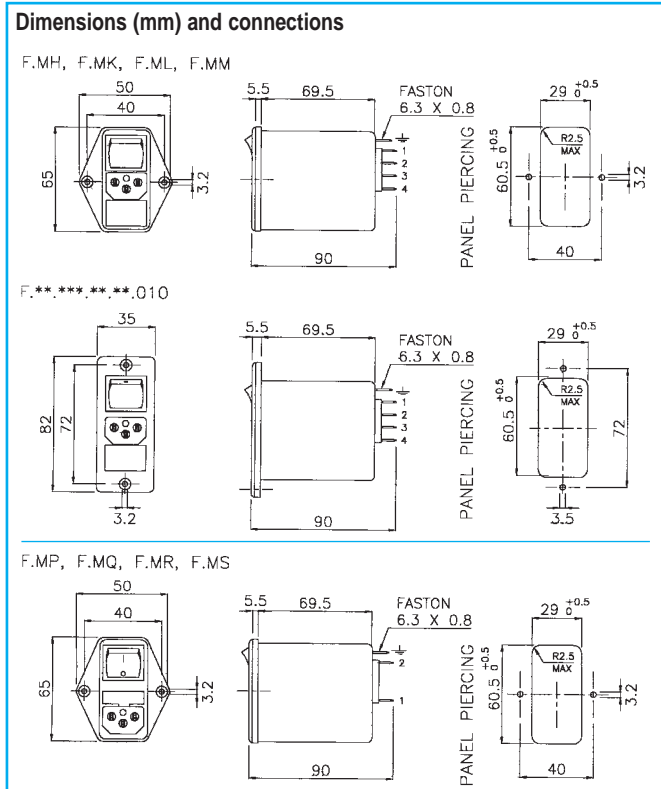
Circuit Diagram:



Approvals



IEC Inlet Filters F.MH-F.MK-F.ML-F.MM-F.MP-F.MQ-F.MR-F.MS series



Insertion loss (typical): — Asymmetrical (line to ground) with Cy - - - - Asymmetrical (with earth inductor) - - - - Symmetrical (line to line)

