

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 20 mm (IEC) or 6.3 x 32 mm (US), bipolar rocker switch, voltage selector 110/220 Vac (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 0.8 mm (OUTPUT); ground terminal connected to case.

Mounting: F.MH, F.MK, FML, FMM versions now available in vertical mounting version - (F.**.***.**.***.010).

Electrical Specifications

Rated voltage (V_R): max 250 V, 50/60 Hz

Rated current (I_R): referred to room temperature = 40°C

Leakage current (I_L): at 220 V, 50 Hz, max value

Voltage test (2_s): line to ground 3000 Vdc or 1800 Vac
line to line 1700 Vdc

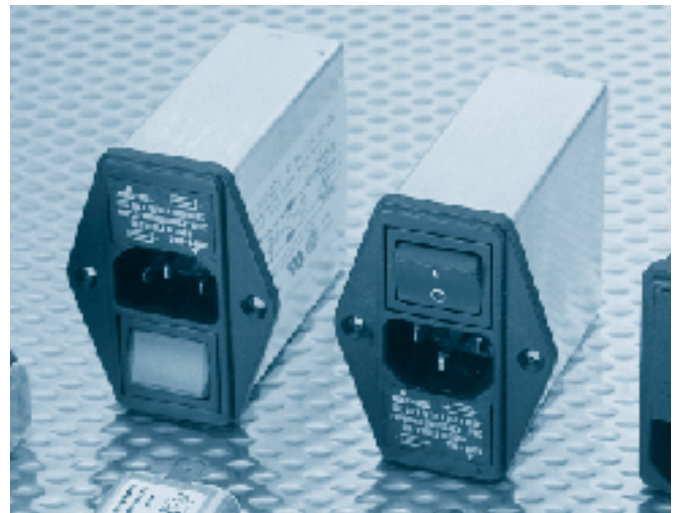
Climatic category: HPF (25/085/21);

Temperature range: -25°C to +85°C

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

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

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



Filter Range

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

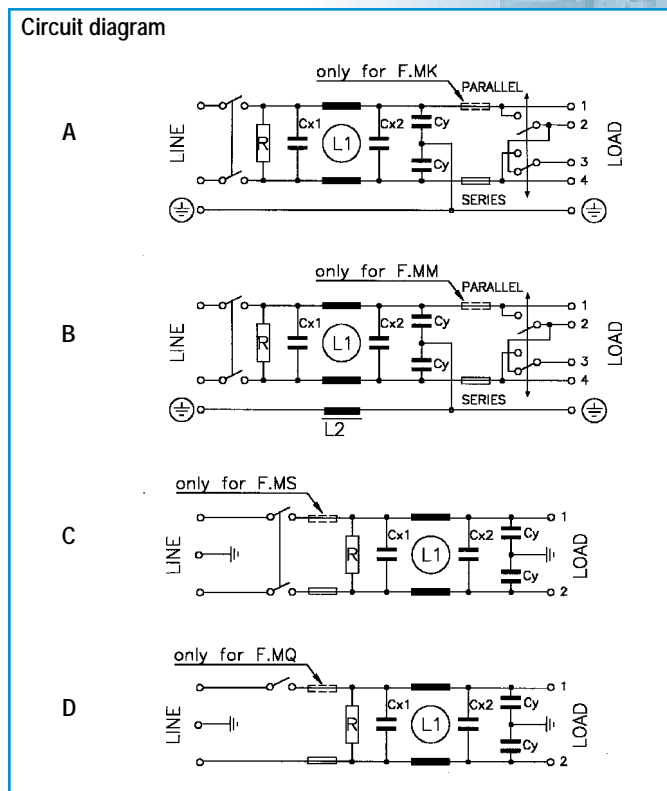
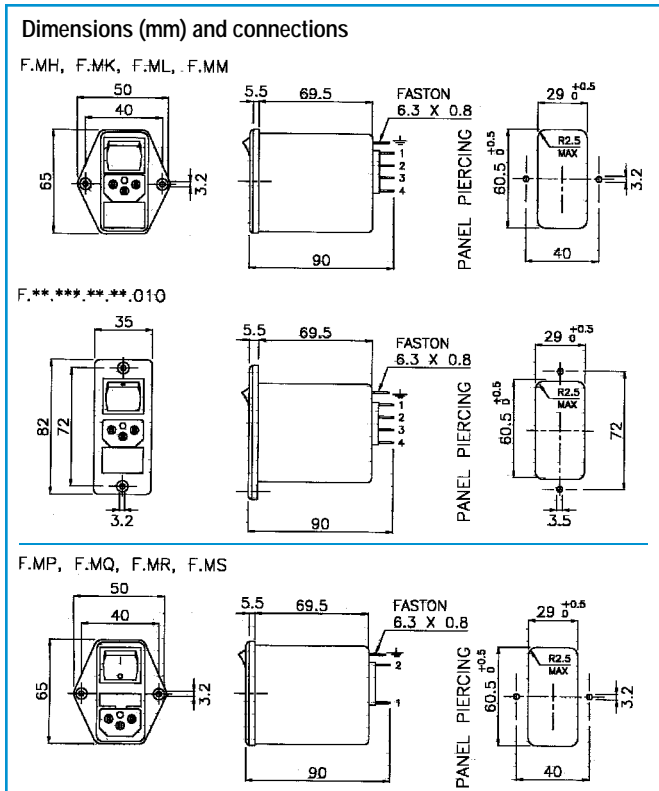
Code	I_R (A)	L_1 (mH)	L_2 (mH)	C_{X1} (uF)	C_{X2} (uF)	C_Y (pF)	I_L (mA)	R (MΩ)	Circ Diag		
F.MH. F.MK. n F.MQ. s F.MS.	01A	20.- - 1	2 x 10	0.22	0.1	2 x 4700	2 x 0.43	0.33	A		
		24.- -	2 x 10			2 x 0.003					
		30.- -	2 x 22			2 x 4700	2 x 0.43				
		34.- -	2 x 22			2 x 0.003					
	2A5	25.- - 2.5	2 x 2	0.22	0.1	2 x 4700	2 x 0.43	0.33			
	31.- -	2 x 8	2 x 0.003								
	35.- -	2 x 8	2 x 4700			2 x 0.43					
	04A	22.- - 4	2 x 1	0.22	0.1	2 x 4700	2 x 0.43	0.33			
	26.- -	2 x 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.- - 6	2 x 1	0.22	0.1	2 x 4700	2 x 0.43	0.33			
	27.- -	2 x 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. n F.MP. s F.MR.	01A	20.- - 1	2 x 10	i	0.22	0.1	2 x 4700	2 x 0.43	0.33	B	
		24.- -	2 x 10	0.65			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.- - 2.5	2 x 2	i	0.22	0.1	2 x 4700	2 x 0.43	0.33	
		25.- -	2 x 2	0.65	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.- - 4	2 x 1	i	0.22	0.1	2 x 4700	2 x 0.43	0.33	
		26.- -	2 x 1	0.65	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.- - 6	2 x 1	i	0.22	0.1	2 x 4700	2 x 0.43	0.33		
	27.- -	2 x 1	0.65	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							

- n No approvals, Circuit Diagram D
- s No approvals, Circuit Diagram C
- i Not applicable to FMP,FMR
- .010 = Vertical mounting option (addition to standard pt no.)
- 25 = Rocker switch
- 26 = Illuminated rocker switch
- H = 1 fuse
- K = 2 fuses
- L = 1 fuse + earth choke
- M = 2 fuses + earth choke
- P = 1 fuse, single pole switch (no voltage selector)
- Q = 2 fuses, single pole switch (no voltage selector)
- R = 1 fuse, double pole switch (no voltage selector)
- S = 2 fuses, double pole switch (no voltage selector)

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)

