

<p>1</p>	<p>2 units module</p>	<p>KM-2-10-21 KM-2-10-22</p>	<p>Attachment plug, 10 A Consisting of: IEC plug and switch + terminal board with fuse holder (1 or 2).</p>	<p>Modular combifilter system</p> <p>The FMCS concept is a universal modular system. It allows us to use just a few individual modules to put together the RFI filter required for the application and to deliver this to the customer at short notice. The design takes account of international directives and standards. In principle, the system consists of 9 basic assemblies. These are: the basis module with the IEC mains plug and double switch, the 6 different EMC-modules, the terminal board with the fuse holder (1 or 2 pole) and, finally, the aluminium enclosure. You can find the optimum combination to solve your problems with the basis modules and the various EMC-modules.</p>										
<p>2</p>		<p>FM-3-XX-3A001 FM-3-XX-3A002</p>	<p>Attachment plug for medical applications with RFI filter module A; 1 ÷ 10 A I_{leak.} 60 µA Consisting of: IEC plug and switch + module A + terminal board with fuse holder (1 or 2). LN 10, 4, 1.5, 0.8, 0.3 mH XX > IN 01, 02, 04, 06, 10 Amp. C_{X2} 68nF, C_{Y1} 470 pF, R 1 M</p>	<p>Technical data:</p> <table border="1"> <tr><td>Rated voltage</td><td>UR (U_{max}) 253 VAC 50 / 60 Hz</td></tr> <tr><td>Nominal current</td><td>1, 2, 4, 6, 10 A</td></tr> <tr><td>Inductances LN</td><td>10, 4, 1.5, 0.8, 0.3 mH</td></tr> <tr><td>Fuses 5 x 20 mm /AT</td><td>1, 2, 4, 6, 10 A</td></tr> <tr><td>Test voltages</td><td>L/N → E 2.7 kVDC, 2 sec L → N 1.7 kVDC, 2 sec</td></tr> </table>	Rated voltage	UR (U _{max}) 253 VAC 50 / 60 Hz	Nominal current	1, 2, 4, 6, 10 A	Inductances LN	10, 4, 1.5, 0.8, 0.3 mH	Fuses 5 x 20 mm /AT	1, 2, 4, 6, 10 A	Test voltages	L/N → E 2.7 kVDC, 2 sec L → N 1.7 kVDC, 2 sec
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<p>3</p>		<p>FM-3-XX-3B001 FM-3-XX-3B002</p>	<p>Attachment plug for medical applications with RFI filter module B; 1 ÷ 10 A I_{leak.} 5 µA Consisting of: IEC plug and switch + module B + terminal board with fuse holder (1 or 2). LN 10, 4, 1.5, 0.8, 0.3 mH XX > IN 01, 02, 04, 06, 10 Amp. C_{X2} 68nF, C_{Y1} 0.0 pF, R 1 M</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>4</p>	<p>3 units module filter</p>	<p>FM-3-XX-31001 FM-3-XX-31002</p>	<p>Attachment plug with RFI filter module 1; 1 ÷ 10 A I_{leak.} 0.25 mA Consisting of: IEC plug and switch + module 1 + terminal board with fuse holder (1 or 2). LN 10, 4, 1.5, 0.8, 0.3 mH XX > IN 01, 02, 04, 06, 10 Amp. C_{X2} 68nF, C_{Y2} 2.2 nF</p>	<p>Patent pending!</p>										
<p>5</p>		<p>FM-3-XX-32001 FM-3-XX-32002</p>	<p>Attachment plug + RFI filter module 2 with discharge resistor; 1 ÷ 10 A I_{leak.} 0.25 mA Consisting of: IEC plug and switch + module 2 + terminal board with fuse holder (1 or 2). LN 10, 4, 1.5, 0.8, 0.3 mH XX > IN 01, 02, 04, 06, 10 Amp. C_{X2} 68nF, C_{Y2} 2.2 nF; R 1 M</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>6</p>		<p>FM-3-XX-33001 FM-3-XX-33002</p>	<p>Attachment plug with X2 capacitor module 3; C_X 330 nF; R 1M Consisting of: IEC plug and switch + module 3 + terminal board with fuse holder (1 or 2).</p>	<p>Insertion loss (typical) FMCS</p>										
<p>7</p>		<p>FM-3-XX-34001 FM-3-XX-34002</p>	<p>Attachment plug with Y2 capacitor module 4; 2 x C_Y 15 nF Consisting of: IEC plug and switch + module 4 + terminal board with fuse holder (1 or 2).</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>8</p>		<p>FM-4-XX-4AB01 FM-4-XX-4AB02</p>	<p>Attachment plug for medical applications with RFI filter modules A+ B; 1 ÷ 10 A I_{leak.} 60 µA Consisting of: IEC plug and switch+ module A + B + terminal board with fuse holder (1 or 2). See above 2 and 3 for the component values</p>	<p>Coding: FM-X-XX-XXXXX/X</p> <p>Filter series FMCS</p> <p>Case 1-9/A-Z</p> <p>Nominal current 01,02,04,06,10 A</p> <p>Basis module 1-9/A-Z</p> <p>EMC module 1-9/A-Z</p> <p>Terminal board 1-9/A-Z</p> <p>INDEX a-z (internal only)</p>										
<p>9</p>	<p>4 units module filter</p>	<p>FM-4-XX-41201 FM-4-XX-41202</p>	<p>Attachment plug with 2 RFI filter modules as 2-stage filters. Consisting of: IEC plug and switch + module 1 + 2 + terminal board with fuse holder (1 or 2). See above 4 and 5 for the component values</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>10</p>		<p>FM-4-XX-41301 FM-4-XX-41302</p>	<p>Attachment plug with 2 RFI filter modules as symmetrically reinforced 2-stage filters. Consisting of: IEC plug and switch+ module 1 + 3 + terminal board with fuse holder (1 or 2). See above 4 and 6 for the component values</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>11</p>		<p>FM-4-XX-41401 FM-4-XX-41402</p>	<p>Attachment plug with 2 RFI filter modules as asymmetrically reinforced 2-stage filters. Consisting of: IEC plug and switch + module 1 + 4 + terminal board with fuse holder (1 or 2). See above 4 and 7 for the component values</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>12</p>		<p>FM-4-XX-43301 FM-4-XX-43302</p>	<p>Attachment plug with 2 modules as symmetrical capacitive load L - N 2 x 330 nF. Consisting of: IEC plug and switch + 2 x module 3 + terminal board with fuse holder (1 or 2). See above 6 for the component values</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>13</p>		<p>FM-4-XX-43401 FM-4-XX-43402</p>	<p>Attachment plug with 2 modules as a purely capacitive interference suppression network. Consisting of: IEC plug and switch + module 3 + 4 + terminal board with fuse holder (1 or 2). See above 6 and 7 for the component values</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>14</p>	<p>5 units module filter</p>	<p>FM-5-XX-51341 FM-5-XX-51342</p>	<p>Attachment plug with 3 modules as symmetrical/asymmetrical reinforced RFI filter. Consisting of: IEC plug and switch + modules 1 + 3 + 4 + terminal board with fuse holder (1 or 2). See above 4, 6 and 7 for the component values</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>15</p>		<p>FM-5-XX-51331 FM-5-XX-51332</p>	<p>Attachment plug with 3 modules as symmetrical heavily reinforced RFI filter. Consisting of: IEC plug and switch + 2 x module 3 + module 1 + terminal board with fuse holder (1 or 2). See above 4 and 6 for the component values</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										
<p>16</p>		<p>FM-5-XX-53341 FM-5-XX-53342</p>	<p>Attachment plug with 3 modules as a purely capacitive interference suppression network. Consisting of: IEC plug and switch + 2 x module 3 + module 4 + terminal board with fuse holder (1 or 2). See above 6 and 7 for the component values</p>	<p>EN 133200 (EN 60939) UL 1283 CSA C22.2 No. 8-M 1986</p>										

The advantages of the system

- Modular combination filter system with integrated appliance plug combination (EN 60320-1) and 2-pole integrated mains switch.
- Fuse current values filter nominal current (no reduction of the fuse current necessary in contrast to products from competition).
- Absolute compliance with max. permitted temperatures even with plastic parts (EN 60320-1).
- Very lightweight construction through latest design with aluminium housing and encapsulated parts.
- Compliance with the latest filter standards (EU-UL).
- The terminal board, with fuse holders (for 5x20 mm slow fuses), the essential heat source (EN 60127-6) is located outside the filter system. This arrangement provides optimum thermal relations. The fuses must be replaced by a qualified electrician (VDE 0100 and EN 60230-1).
- Quick delivery, thanks to storage of the basis modules in the delivery plant.
- Problem solving and help from our specialists in Germany and Switzerland.
- Customers can create their own filter designs.
- The concept provides the greatest possible flexibility in filter design and at the same time a high level of reliability and the lowest costs.
- Designs available for medical technology.

