

Chassis Mount Filters

F.LL.D3 series-BM, ZS type

Three phase and neutral - high performance

This family of three phase or three phase and neutral filters offer high attenuation across a broad frequency spectrum. The single or two stage designs are housed in compact enclosures to assist where space is a premium.

Designed to protect against high levels of interference generated by switch mode power supplies, frequency converters, process machines and industrial power applications.

- Current ratings from 4A to 25A
- Three phase or three phase and neutral options
- High symmetric and asymmetric attenuation
- Good broadband-frequency attenuation
- Compact, low profile enclosures
- Low-leakage versions available

Mechanical Specifications

Manufacture: case tin-plate steel; electrical components sealed with resin.

Connections: faston 6.3 x 0.8mm (4A, 6A, 10A, 12A); threaded bar with metric nut (20A, 25A).



Electrical Specifications

Rated voltage (V_R): max 440V (ph-ph), 50/60Hz
 Rated current (I_R): referred to room temperature = 40°C
 Leakage current (I_L): at $V_R / \sqrt{3}$, 50Hz max value
 Voltage test ($2s.$): line to ground 2700Vdc
 line to line 1700Vdc
 Climatic category: HPF (25/085/21):
 Temperature range: -25°C to +85°C

Filter Range

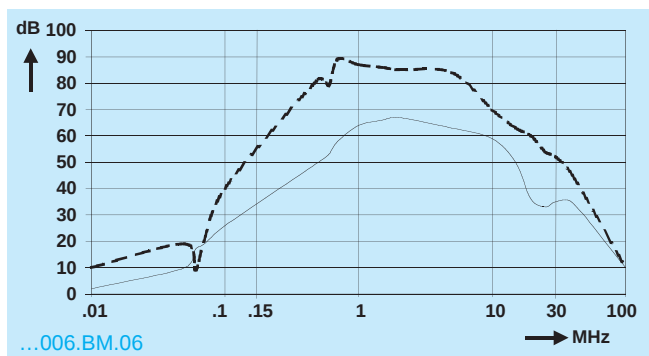
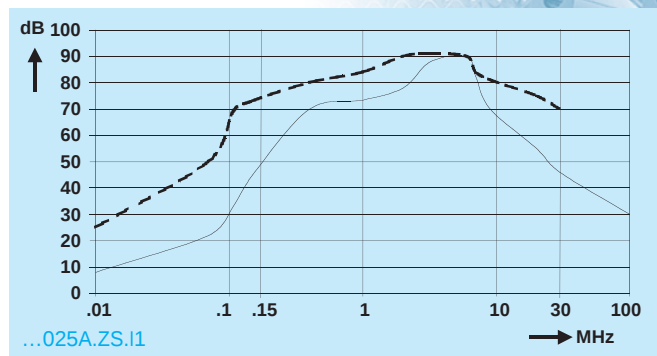
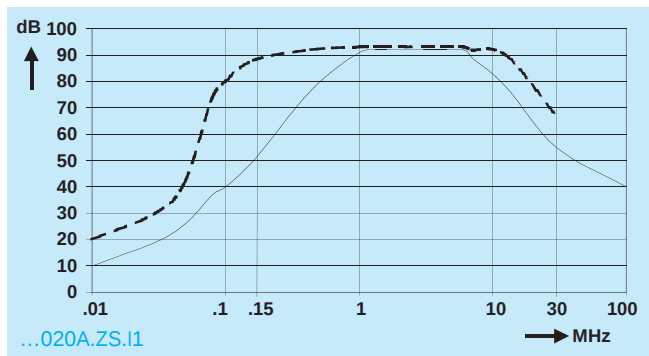
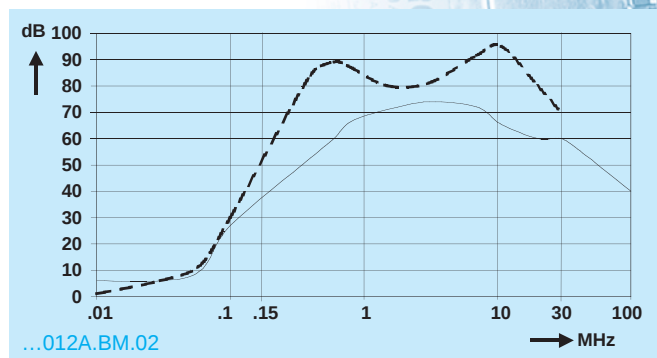
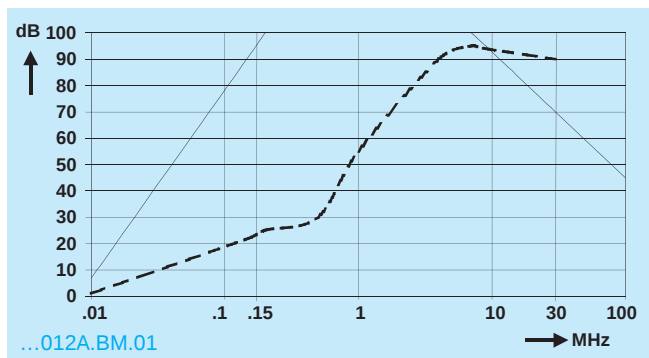
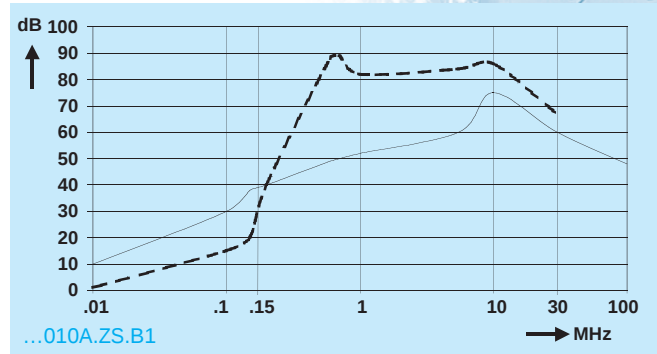
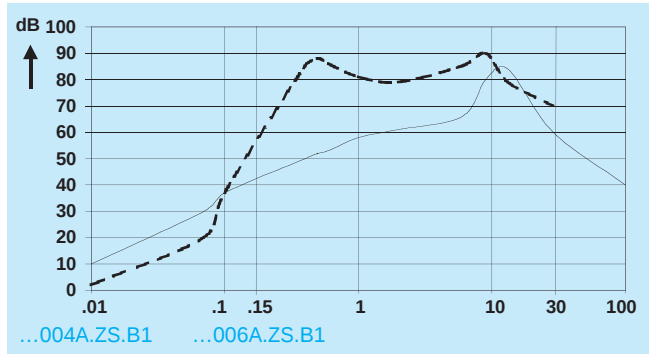
Code	I_R (A)	L_1 (mH)	L_2 (mH)	C_{X1} (uF)	C_{X2} (uF)	C_{Y1} (nF)	C_{Y2} (nF)	I_L (mA)	R (MΩ)	R_1 (MΩ)	Circ diag
F.LL.D3.004A.ZS.B1	4	3x8	3x0.21	3x1	3x1		3x10	3.2	3x0.33	1	A
F.LL.D3.006A.ZS.B1	6	3x6.5	3x0.12	3x1	3x1		3x10	3.2	2x0.33	1	A
▲ F.LL.D3.006A.BM.06	6	4x2		3x1.5	3x1.5	1x22	1x22	4.6	3x0.47		E
F.LL.D3.010A.ZS.B1	10	3x4	3x0.57	3x1	3x1		3x10	3.2	3x0.33	1	A
F.LL.D3.012A.BM.01	12	4x1.7	4x1.7		3x1	4x47	4x47	39.6	3x0.33		B
F.LL.D3.012A.BM.02	12	4x1.56	4x0.04	3x1	3x1		4x33	13.9	3x0.33	0.62	C
F.LL.D3.020A.ZS.I1	20	3x2.5	3x2.5	3x6.6	3x13.2		3x33	10.4	3x0.33	0.62	D
F.LL.D3.025A.ZS.I1	25	3x1.5	3x1.5	3x6.6	3x13.2		3x22	7.0	3x0.33	0.62	D

▲ UL approval only

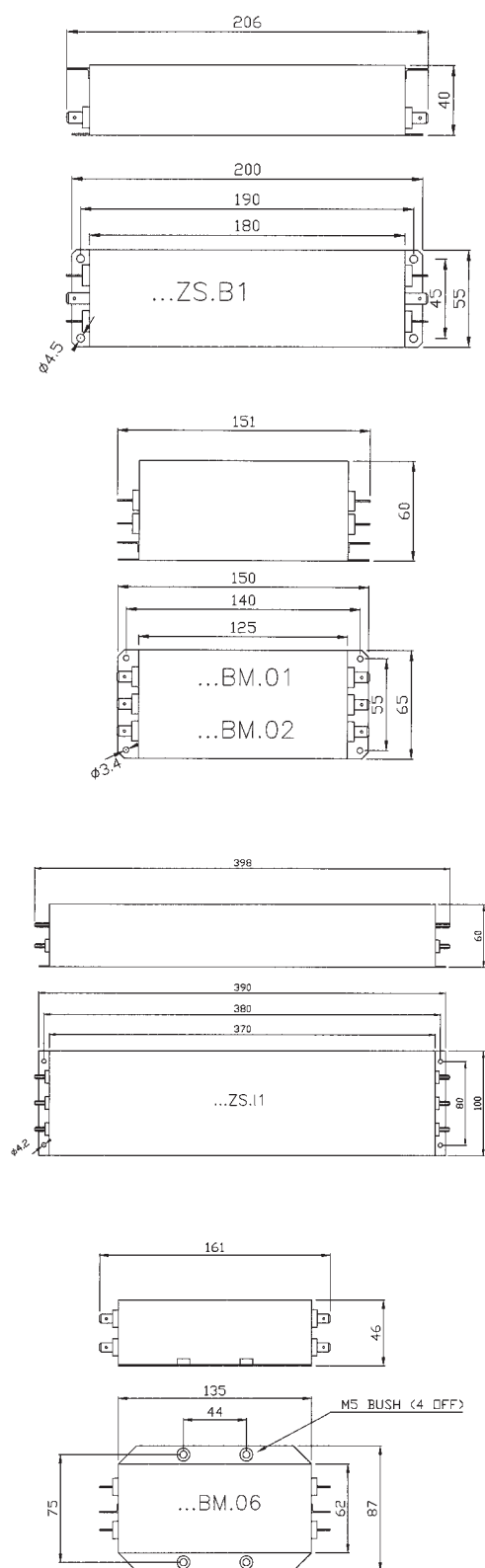
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Insertion loss (typical): — Asymmetrical (line to ground) --- Symmetrical (line to line)



Dimensions (mm) and connections



Circuit diagram

