

# F Series

## General Purpose DC Power-Line Filters (1-260A)



### Typical application

- Electronic equipment and measuring instruments (DC side)

### Features and benefits

- General purpose
- Easy installation
- Chassis mounting

### Conformity

- CE EN 60939
- CSA C22,2 | available on request for most types
- UL 1283 | available on request for most types
- Climatic category 25/085/21 (IEC 60068-1)

### Technical specifications

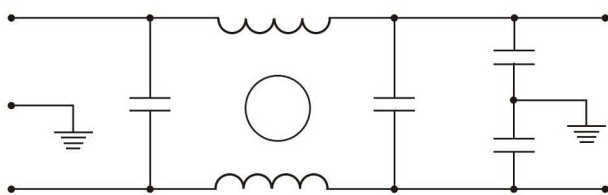
	Symbol	Value	Unit	Remarks
Rated voltage	$V_R$	80	VDC	
Rated current	$I_R$	1 ... 260	A	
Ground capacitance		1 ... 44	nF	
Operating frequency	$f_{op}$	50/60	Hz	
Insertion loss		up to 100/100	dB	common/differential mode
Leakage current	$I_l$	- - -	mA	
Operating temperature	$T_{amb}$	-25 ... +85	°C	
Storage temperature	$T_s$	-25 ... +85	°C	
Test voltage - line to line	$V_{test}$	350	VDC	
Test voltage - line to ground	$V_{test}$	1414	VDC	

## Electrical properties

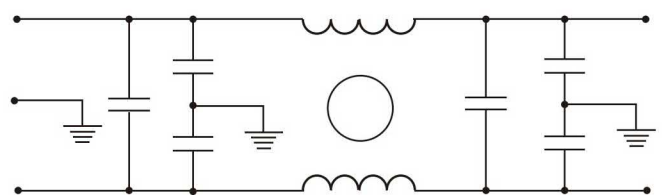
Model	Connection		Rated Current [A]	Ground Capacitance [nF]	Circuit Diagram	Package Type	Size (LxBxH) [mm]
	Line	Load					
DL-1F3	F	F	1	22	1	B	54x46x22
DL-3F3	F	F	3	22	1	B	74.5x63.5x36
DL-6F1	F	F	6	22	1	A	78x52x38
DL-10F1	F	F	10	22	1	A	78x52x38
DL-15F1	F	F	15	22	1	A	78x52x38
DL-20F1	S	S	20	22	1	A	78x52x38
DL-25F1	S	S	25	22	1	D	188x69x51
DL-30F1	S	S	30	22	1	D	188x69x51
DL-35F1	S	S	35	22	1	D	188x69x51
DL-40F1	S	S	40	22	1	D	188x69x51
DL-40F3	S	S	40	22	1	E	max. 161x95.3x84
DL-50F3	S	S	50	22	1	E	max. 161x95.3x84
DL-60F31	S	S	60	22	2	E	max. 161x95.3x84
DL-80F3	S	S	80	44	2	E	max. 180x115x100
DL-80F33	S	S	80	44	2	E	max. 156x95x80
DL-100F3	S	S	100	44	2	E	max. 180x115x100
DL-120F3	S	S	120	44	2	E	max. 180x115x100
DL-140F3	S	S	140	44	2	E	max. 180x115x100
DL-160F3	S	S	160	1μ	2	E	max. 180x115x100
DL-180F1	S	S	180	44	2	G	235x112x140
DL-200F1	S	S	200	44	2	G	max. 235x112x140
DL-260F1	S	S	260	44	2	G	max. 235x112x140
DL-1FX3	L	L	1	4.7	1	BX	54x62x22x3.8∅
DL-3FX1	L	L	3	22	1	AX	48x24x20
DL-20FX3	L	L	20	1μ	1	BX	60x70.5x28.5
DL-40FX3	L	L	40	220	1	EX	72(+/-2)x85(+/-2)x38(+/-2)

Legend: F = FASTON 6.3 S = screw terminal

## Circuit schematic

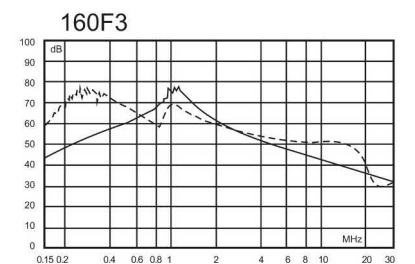
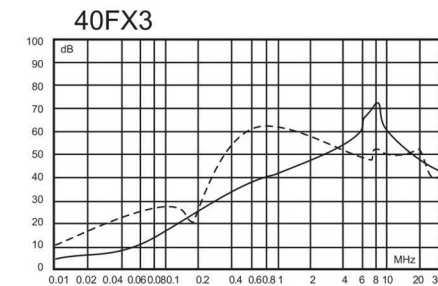
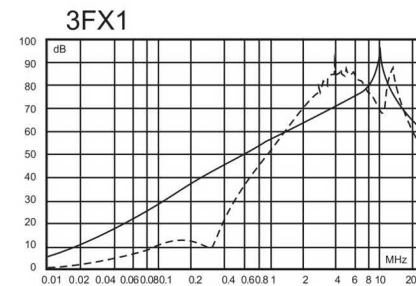
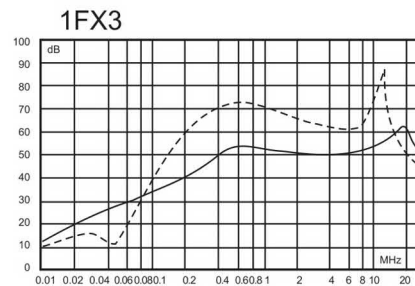
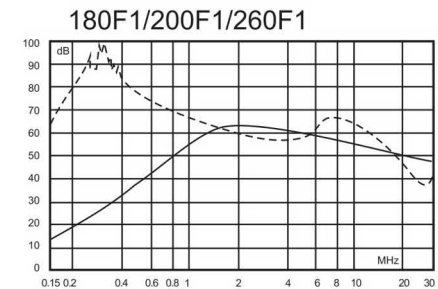
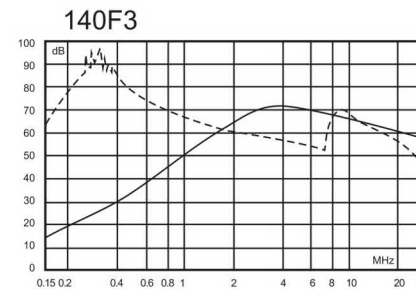
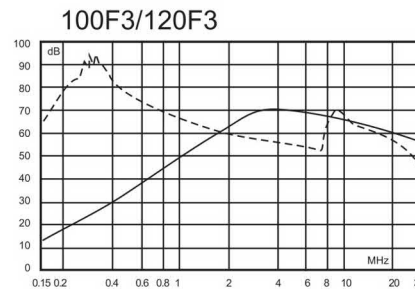
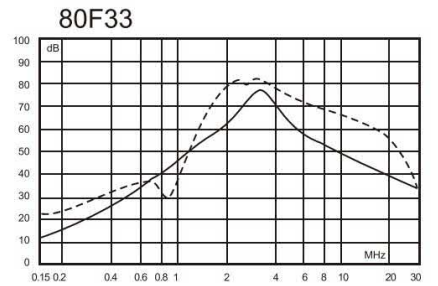
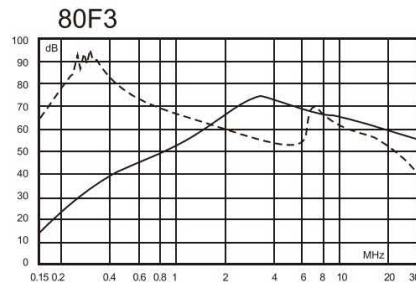
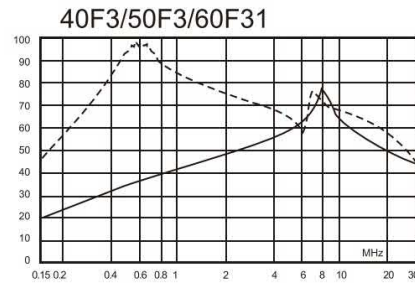
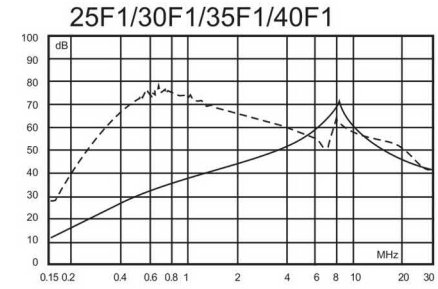
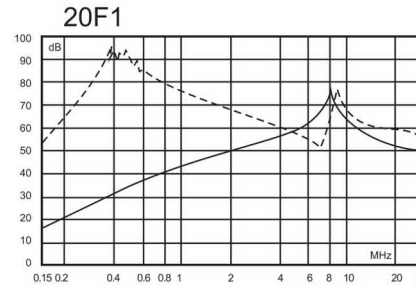
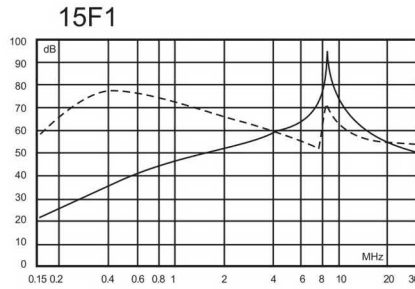
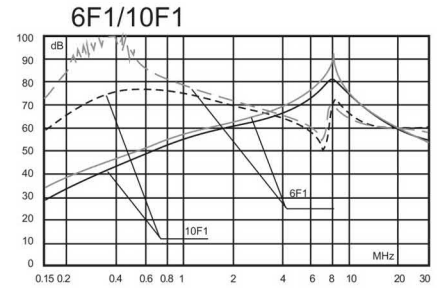
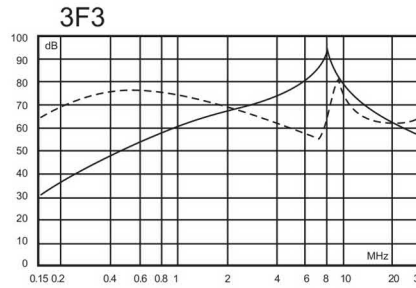
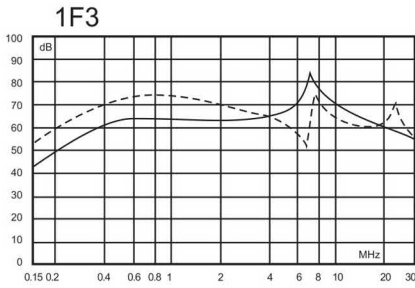


1



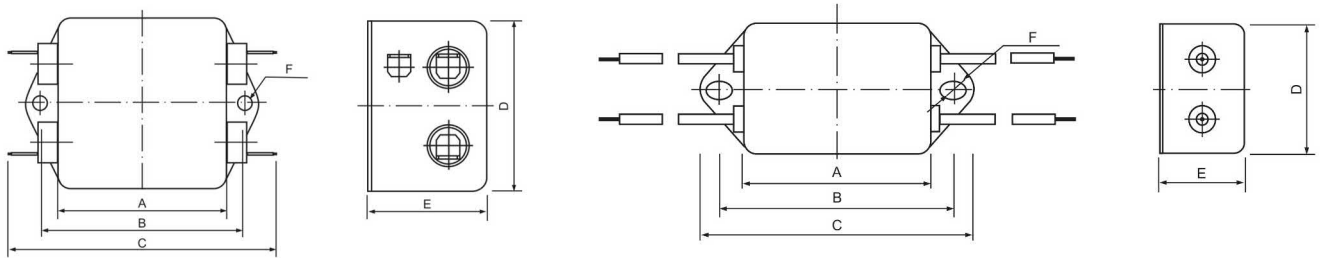
2

# Insertion loss characteristics



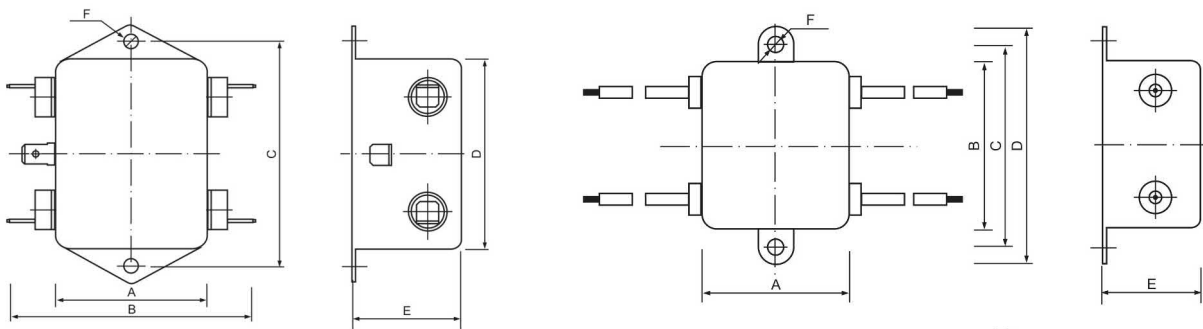
\_\_\_\_\_ Common Mode  
 - - - - - Differential Mode

# Mechanical packaging



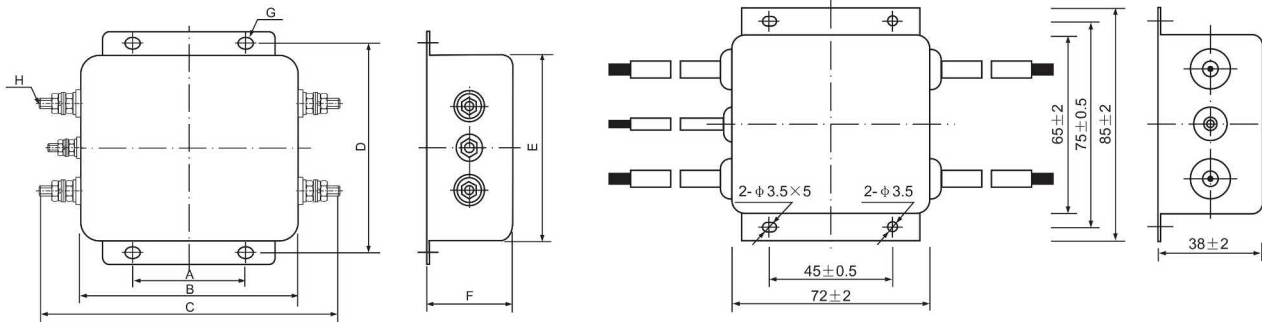
A...

Ax...



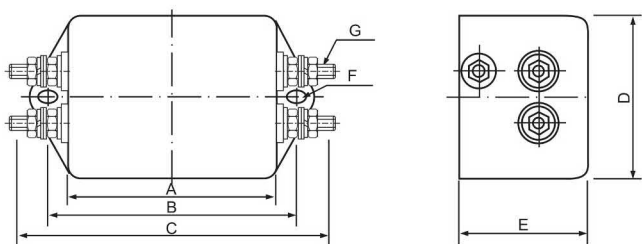
B...

Bx...

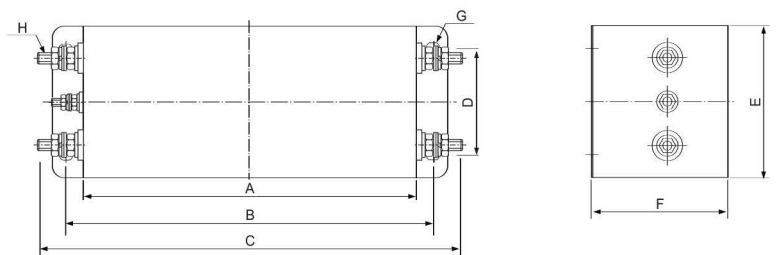


E...

Ex1...



D...



G...

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