

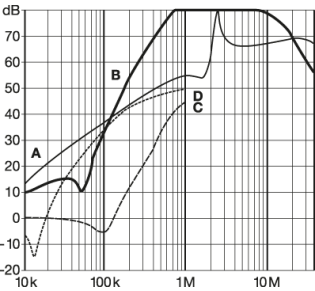
Filter selection table

Filter	Rated current @ 50 °C (40 °C)	Inductance		Capacitance		DC Resistance R @ 25 °C per path	Input/Output connections	Weight
		L	L1	Cx	Cy			
	[A]	[mH]	[mH]	[nF]	[nF]	[mΩ]		[g]
FN 409-3-02	3 (3.2)	2.9		4700	4.7	86	-02	30
FN 409-6.5-02	6.5 (7)	0.5		4700	4.7	18	-02	30
FN 409-13-02	13 (14)	0.08	0.18	4700	4.7	7.8	-02	47

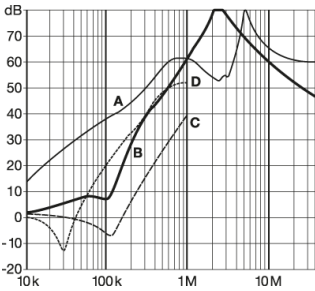
Typical filter attenuation

Per CISPR 17; A = 50 Ω/50 Ω sym; B = 50 Ω/50 Ω asym; C = 0.1 Ω/100 Ω sym; D = 100 Ω/0.1 Ω sym

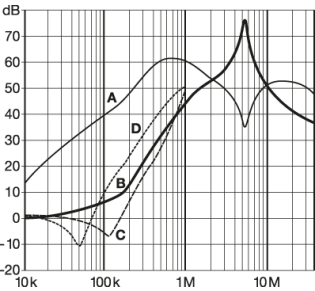
3 A types



6.5 A types

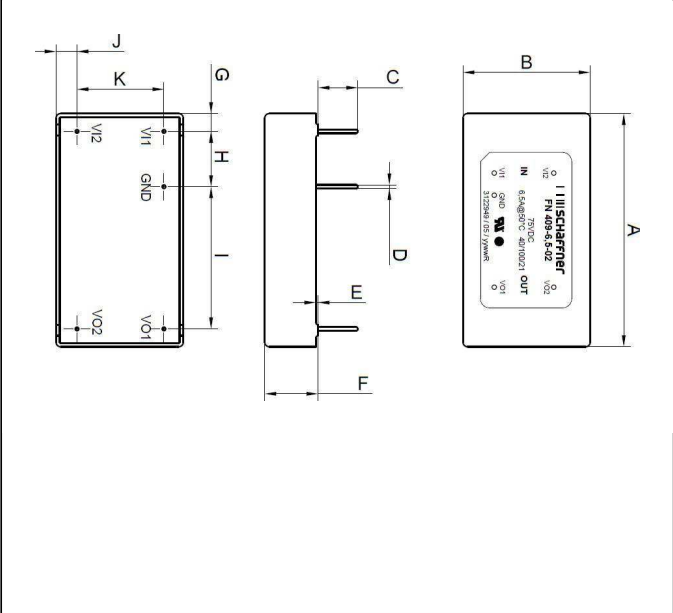


13 A types

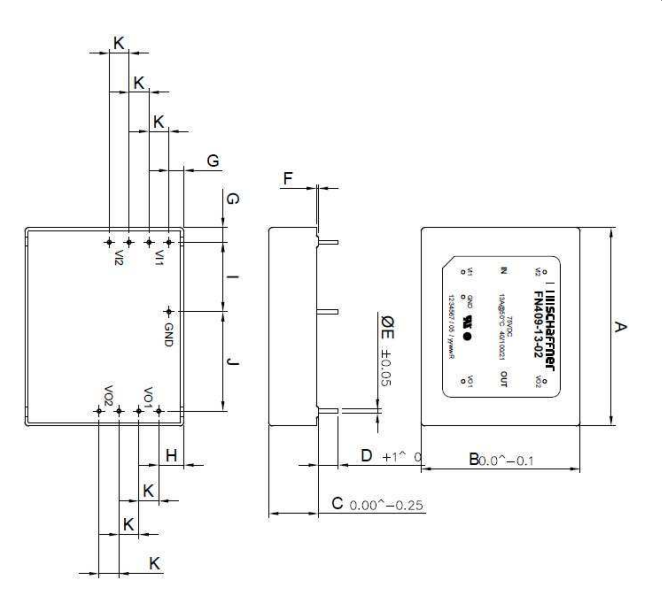


Mechanical data

3 and 6.5 A types



13 A types



All dimensions in mm; 1 inch = 25.4 mm
Tolerances according: ISO 2768-m / EN 22768-m

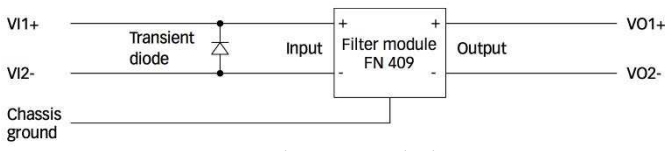
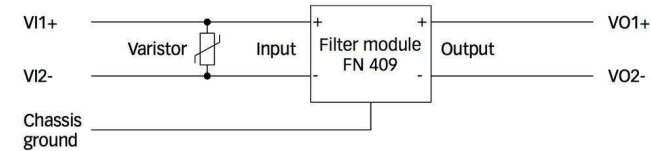
Dimensions

	3 A	6.5 A	13 A
A	51	51	50.8
B	27.9	27.9	40.6
C	8.2	8.2	12.7
D	Ø0.8	Ø0.8	5.1
E	0.5	0.5	Ø1
F	11.7	11.7	0.5
G	3.9	3.9	3.8
H	12.1	12.1	6.4
I	31.1	31.1	17.8
J	4.6	4.6	25.4
K	19.05	19.05	5.08

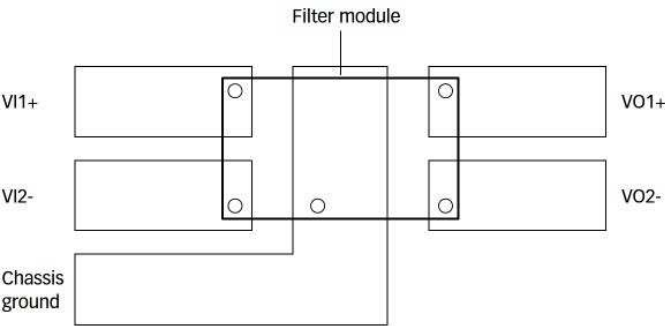
Application

The filters are intended to be used in DC applications per EN/IEC 60950, where no transient on the DC bus occurs. To protect the filter against transient voltages a varistor (VDR, fig. 1) or a transient diode (fig. 2) must be placed at the input side of the filter module.

For protection against overcurrent place a fuse on each input lead (VI+, VI-). When AC voltage is superimposed on DC voltage, VP-P or VO-P, whichever is larger, should be maintained within the rated voltage range.



Recommended layout



Note: avoid routing signal tracks or planes under the filter module

Please visit www.schaffner.com to find more details on filter connectors.



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