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Ultra Compact EMC Filter



- Rated currents from 0.5 to 8.4 A
- Aluminium case
- Very compact PCB-mountable design
- Low profile
- Optional medical versions (B type)



Performance indicators Attenuation performance standard high very high

Technical specifications

Operating frequency

Rated currents High potential test voltage Temperature range (operation and storage) Design corresponding to Flammability corresponding to MTBF @ 40°C/230 V (Mil-HB-217F)

Maximum continuous operating voltage

250 VAC, 50/60 Hz

DC to 400 Hz

Rated current [A]

0.5 to 8.4 A @ 40°C max.

P -> PE 2000 VAC for 2 sec (standard types)

P -> N 760 VAC for 2 sec

P -> PE 2500 VAC for 2 sec (B types)

-25°C to +100°C (25/100/21)

UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939

UL 94 V-0

1,900,000 hours

Approvals









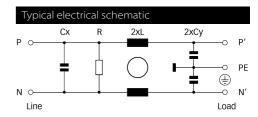
The FN 406 PCB filter is a single-phase filter designed for easy, fast and compact PCB- mounting. Choosing the FN 406 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptance. Standard PCB singlephase filters are a practical solution helping you to pass EMI system approval in a short time. A selection on amperage ratings and medical types are designed to offer you the desired standard product.

Features and benefits

- I Good conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- I PCB through hole mounting.
- Low profile.
- Custom specific versions on request.

Typical applications

- I Electrical and electronic equipment
- I Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- I Test and measurement equipment
- Medical equipment



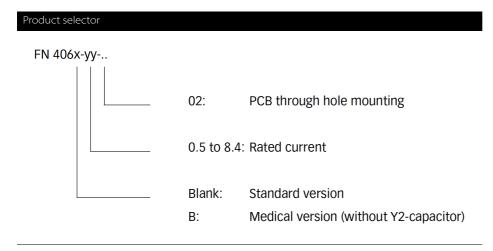
2 EMC/EMI Products

Schaffner Group Datasheets | 2017

Filter selection table

Filter	Rated current	Leakage current*	Inductance	Inductance Capacitano		Resistance	Input/Output	Weight
	@ 40 °C (25 °C)	@ 230 VAC/50 Hz	L	Cx	Су	R	connections	
	[A]	[μΑ]	[mH]	[nF]	[nF]	[kΩ]	I	[g]
FN 406-0.5-02	0.5 (0.6)	373	24	100	2.2	1000	-02	36
		373					-	
FN 406-1-02	1 (1.2)		12	100	2.2	1000	-02	36
FN 406-3-02	3 (3.6)	373	2.5	100	2.2	1000	-02	36
FN 406-6-02	6 (6.9)	373	0.78	100	2.2	1000	-02	36
FN 406-8.4-02	8.4 (9.6)	373	0.3	100	2.2	1000	-02	36
FN 406 B-0.5-02	0.5 (0.6)	2	24	100		1000	-02	36
FN 406 B-1-02	1 (1.2)	2	12	100		1000	-02	36
FN 406 B-3-02	3 (3.6)	2	2.5	100		1000	-02	36
FN 406 B-6-02	6 (6.9)	2	0.78	100		1000	-02	36
FN 406 B-8.4-02	8.4 (9.6)	2	0.3	100		1000	-02	36

^{*} Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

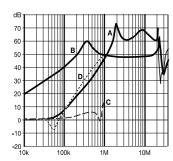


For example: FN 406-0.5-02, FN 406 B-8.4-02

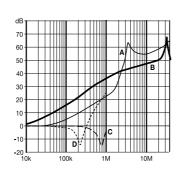
Typical filter attenuation

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

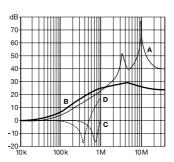
0.5 to 3 A types



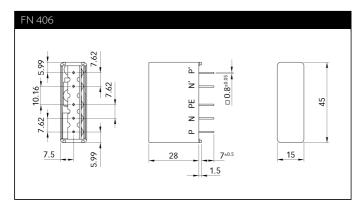
6 A types



8.4 A types



Mechanical data



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

Please visit <u>www.schaffner.com</u> to find more details on filter connectors.



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