

PCB-mounting filter

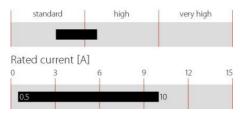


- Rated currents from 0.5 to 10 A
- Compact PCB-mountable design
- I Low profile



Performance indicators

Attenuation performance



Technical specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz				
Operating frequency	dc to 400 Hz				
Rated currents	0.5 to 10 A @ 40 °C max.				
High potential test voltage	P -> PE 2000 VAC for 2 sec				
	P -> N 760 VAC for 2 sec				
Temperature range (operation and storage)	-25 °C to +100 °C (25/100/21)				
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/				
Flammability corresponding to	UL 94 V-0				
MTBF @ 40°C/230V (Mil-HB-217F)	1,600,000 hours				

Approvals









The FN 405 PCB filter is a single-phase filter designed for easy and fast PCB-mounting. Choosing the FN 405 $\,$ product line brings you the rapid availability of a standard filter associated with the necessary safety acceptance. Standard PCB single-phase filters are a practical solution helping you to pass EMI system approval in a short time. A selection on amperage ratings 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
- PCB through hole mounting
- Low profile
- Custom specific versions on request

Typical applications

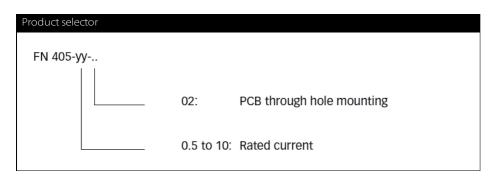
- I Electrical and electronic equipment
- I Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment

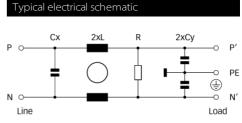
2 EMC/EMI Products Schaffner Group Datasheets 2014

Filter selection table

Filter	Rated current	Leakage current*	Inductance	Cap	acitance	Resistance	Input/Output	Weight
	@ 40 °C (25 °C)	@ 230 VAC/50 Hz	L	Cx	Су	R	connections	
	[A]	[μΑ]	[mH]	[nF]	[nF]	[kΩ]	1	[g]
FN 405-0.5-02	0.5 (0.6)	373	24	15	2.2		-02	40
FN 405-1-02	1 (1.2)	373	10	15	2.2		-02	40
FN 405-3-02	3 (3.6)	373	2	15	2.2		-02	40
FN 405-6-02	6 (6.9)	373	0.8	15	2.2		-02	40
FN 405-10-02	10 (11.5)	373	0.5	15	2.2		-02	40

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

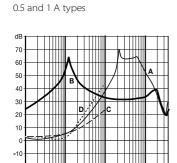


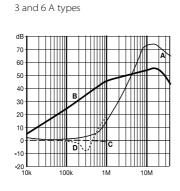


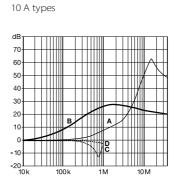
For example: FN 405-0.5-02, FN 405-10-02

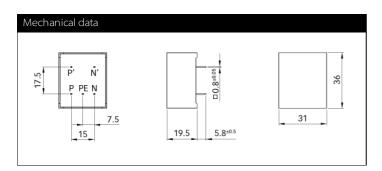
Typical filter attenuation

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









All dimensions in mm; 1 inch = 25.4 mm Tolerances according: ISO 2768-m / EN 22768-m 3 | EMC/EMI Products | Schaffner Group | Datasheets | 2014



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