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High Performance Two-stage PCB-mounting EMC Filter



- Rated currents from 0.5 to 6 A
- High attenuation two-stage design
- PCB-mountable design



Performance indicators								
Attenuation pe	rformance	9						
standard	hiç	gh	very high					
Rated current [/	Α]							
0 3	6	9	12	15				
0.5	6							
0 3	6	9	12	15				

Technical specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz				
Operating frequency	DC to 400 Hz				
Rated currents	0.5 to 6 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/EN 60939				
Flammability corresponding to	UL 94 V-2 or better				
MTBF @ 40°C/230 V (Mil-HB-217F)	675,000 hours				

Approvals









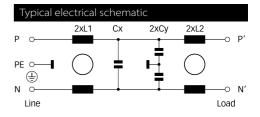
The FN 410 PCB filter is a single-phase, two-stage filter designed for easy and fast PCB-mounting. Choosing the FN 410 product line brings you the rapid availability of a standard high performance filter associated with the necessary safety acceptance. Standard PCB single-phase filters are a practical 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

- Very good conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Two-stage single-phase design
- PCB through hole mounting
- Custom specific versions on request

Typical applications

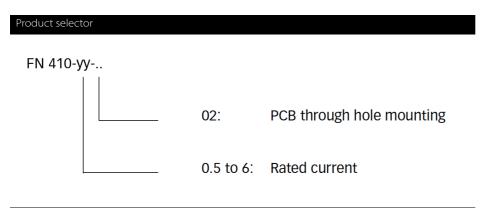
- I Electrical and electronic equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- I Test and measurement equipment



Filter selection table

Filter*	Rated current	Leakage current*	Inc	luctance	Cap	oacitance	Resistance	Input/Output	Weight
	@ 40°C (25°C)	@ 230 VAC/50 Hz	L1	L2	Cx	Су	R	connections	
	[A]	[mA]	[mH]	[mH]	[nF]	[nF]	[kΩ]	1	[g]
FN 410-0.5-02	0.5 (0.6)	373	24	24	33	2.2		-02	85
FN 410-1-02	1 (1.2)	373	10	10	33	2.2		-02	85
FN 410-3-02	3 (3.6)	373	2	2	33	2.2		-02	85
FN 410-6-02	6 (6.9)	373	0.8	0.8	33	2.2		-02	85

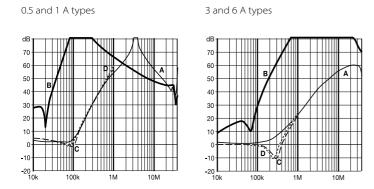
^{*} Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.



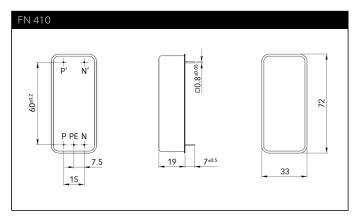
For example: FN 410-0.5-02, FN 410-6-02

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



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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