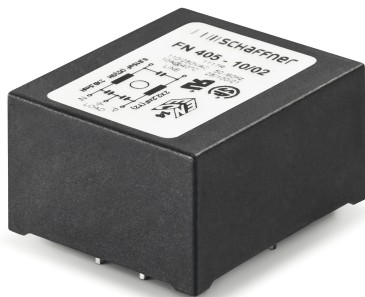


PCB-mounting filter



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



Performance indicators

Attenuation performance



Rated current [A]



Approvals & Compliances



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

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

Technical specifications

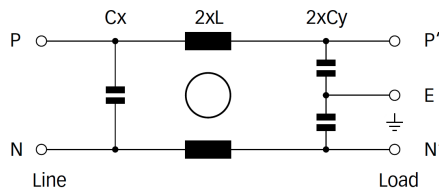
- Maximum continuous operating voltage**
- Operating frequency**
- Rated currents**
- High potential test voltage**
- Temperature range (operation and storage)**
- Design corresponding to**
- Flammability corresponding to**
- MTBF @ 40°C/230 V (Mil-HB-217F)**

- 250 VAC, 50/60 Hz
- DC to 400 Hz
- 0.5 to 10 A @ 40°C max.
- P -> PE 2000 VAC for 2 sec
- P -> N 760 VAC for 2 sec
- 25°C to +100°C (25/100/21)
- UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
- UL 94 V-0
- 1,600,000 hours

Typical applications

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

Typical electrical schematic



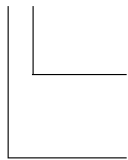
Filter selection table

Filter	Rated current @ 40°C (25°C) [A]	Leakage current* @ 230 VAC/50 Hz [µA]	Inductance** L [mH]	Capacitance**		Resistance R	Input/Output connections	Weight [g]
				Cx [nF]	Cy [nF]			
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.
 **: Tolerances apply: Inductance: -30/+50%, Capacitance: ±20%, Resistance: ±10%

Product selector

FN 405-yy-...



02: PCB through hole mounting

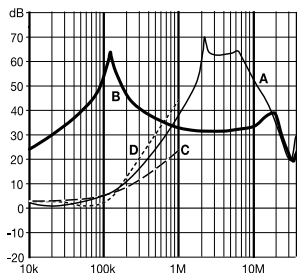
0.5 to 10: Rated current

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

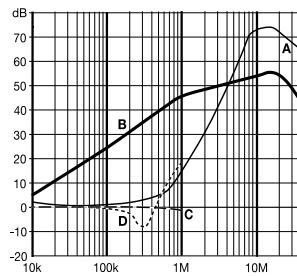
Typical filter attenuation

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

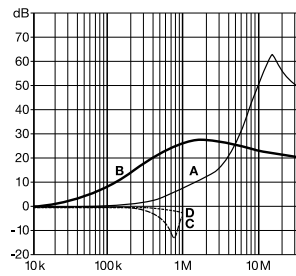
0.5 and 1 A types



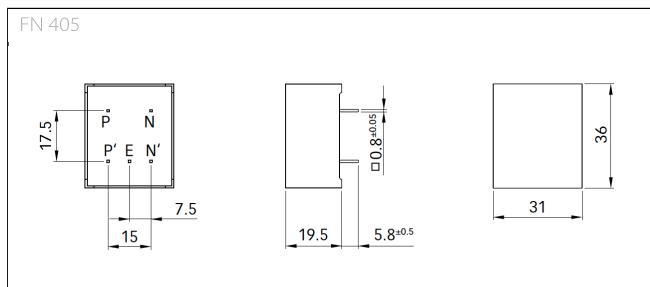
3 and 6 A types



10 A types



Mechanical data





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must ultimately be determined by the



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