

Safe and ergonomic EMC/EMI filter with very low leakage current



- Light weight plastic enclosure design

- Very low filter leakage current

- Hinged safety covers

- Embedded filter terminals

- Different performance levels

- Environmental friendly design without potting compound

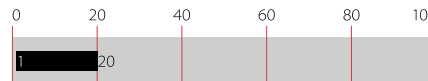


Performance indicators

Attenuation performance



Rated current [A]



Approvals



Features and benefits

- A plastic housing and a metal ground plate are cleverly combined to get the lowest possible product weight without compromising EMC behaviour

- The embedded terminals from Schaffner guarantee user-friendly handling and reliable, long-lasting electrical connection

- Captive hinged protective covers contribute to overall safety by offering protection against unintended contact with live conductors. They are included in the standard scope of delivery without any extra cost

- Very low leakage current values make the filters suitable for grids with very tough requirements or sensitive GFCIs, and for applications which set value on safety and reliability

- FN 2450 feature an ecologically conscious construction without the use of potting compound or banned substances (RoHS). Used raw materials can be easily separated at the end of the product life time for proper and environmentally safe disposal

Technical specifications

Maximum continuous operating voltage	250 VAC, 50/60 Hz
Rated currents	6 to 20 A @ 55°C
Operating frequency	DC to 400 Hz
High potential test voltage	P/N -> E 2500 VAC for 60 sec * P -> N 1100 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Flammability corresponding to	UL 94 V-0 (safety covers UL 94V-1)
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939, EN 60601-1
MTBF @ 40°C/230 V (Mil-HB-217F)	>180,000 hours

* Type testing only

Typical applications

- Electrical and electronic equipment

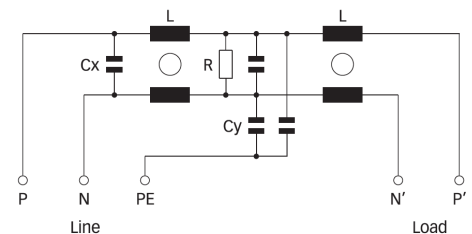
- Test and measurement devices

- Medical devices n Industrial automation


- Small machines

- Office automation equipment

Typical electrical schematic



Filter selection table

Filter*	Rated current @ 55°C (40°C)	Leakage current** @ 250 VAC /50 Hz (@ 120 VAC /60 Hz)	Inductance L	Capacitance		Resistance R	Input/Output connections	Weight
				Cx	Cy			
	[A]	[mA]	[mH]	[uF]	[nF]	[MΩ]		[g]
FN 2450 G-6-61	6 (6.8)	0.66 (0.38)	10.5	0.47	4.7	1	-61	210
FN 2450 G-10-61	10 (11.4)	0.66 (0.38)	4.9	0.47	4.7	1	-61	210
FN 2450 G-16-61	16 (18.2)	0.66 (0.38)	1.84	0.47	4.7	1	-61	210
FN 2450 G-20-61	20 (22.8)	0.66 (0.38)	0.94	0.47	4.7	1	-61	210
FN 2450 F-6-61	6 (6.8)	0.47 (0.27)	10.5	0.47	3.3	1	-61	210
FN 2450 F-10-61	10 (11.4)	0.47 (0.27)	4.9	0.47	3.3	1	-61	210
FN 2450 F-16-61	16 (18.2)	0.47 (0.27)	1.84	0.47	3.3	1	-61	210
FN 2450 F-20-61	20 (22.8)	0.47 (0.27)	0.94	0.47	3.3	1	-61	210
FN 2450 B-6-61	6 (6.8)	0.00	10.5	0.47		1	-61	210
FN 2450 B-10-61	10 (11.4)	0.00	4.9	0.47		1	-61	210
FN 2450 B-16-61	16 (18.2)	0.00	1.84	0.47		1	-61	210
FN 2450 B-20-61	20 (22.8)	0.00	0.94	0.47		1	-61	210

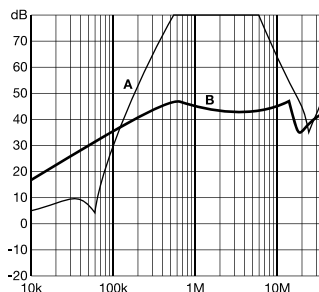
* The letter following FN2450 represents the value of the Y-capacitor and is directly related to the performance and leakage current of the filter. Other Y-capacitor values are available upon request.

** Maximum leakage current under normal operating conditions (acc. to IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

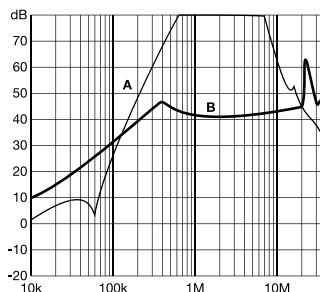
Typical filter attenuation

Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym

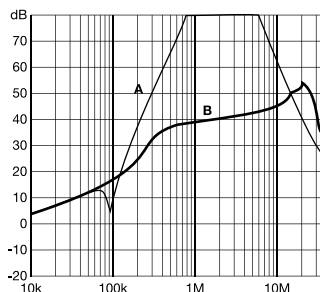
6 A types



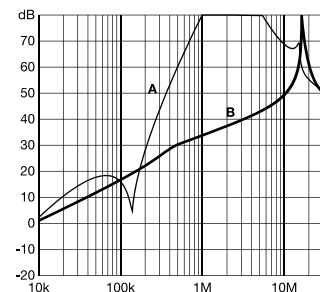
10 A types



16 A types



20 A types





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