



EMC filters

Series/Type: B84773*A000
Date: November 2012

Power line filters for 1-phase systems

Rated voltage 250 V AC/DC

Rated current 1 A to 10 A

Construction

- 2-line filter with IEC connector and fuse holder
- Appliance connector according to IEC/EN 60320-1
- Fuse holder for 2 fuses $\varnothing 5 \times 20$ mm
- Metal case



Versions

- Standard version (B84773A*)
- Medical version with low leakage current (B84773M*)

Features

- Easy to install
- Compact design
- Cost optimized construction
- Degree of protection from front side IP 40¹⁾
- UL and cUL approval obtained
- ENEC 10 approval is pending



Applications

- Switched-mode power supplies for
 - industrial electronics
 - telecom systems
 - data systems
- DC applications
- Measuring instruments
- Medical engineering

Terminals

- Line side: IEC inlet C14 according to IEC/EN 60320-1
- Load side: Tab connectors 6.3×0.8 mm

Marking

Marking on component:

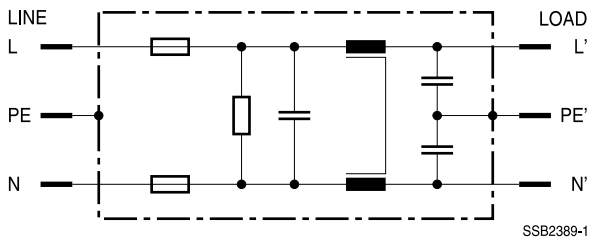
Manufacturer's logo, ordering code, rated voltage, rated current, rated temperature, climatic category, date code

Minimum data on packaging:

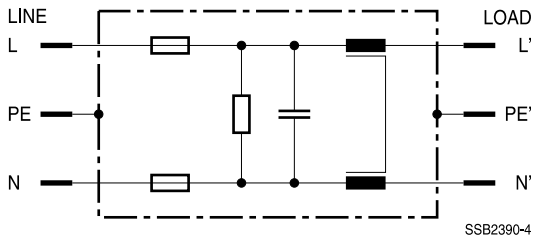
Manufacturer's logo, ordering code, quantity, date code

1) To IEC 60529

Typical circuit diagram of B84773A*A000 (standard version)






Typical circuit diagram of B84773M*A000 (medical version)



Technical data and measuring conditions of B84773*A000

Rated voltage	V_R	250	V DC/AC
Rated frequency	f_R	50/60	Hz
Test voltage line to line for 2 s (B84773A*)	V_{test}	760	V AC
Test voltage line to line for 2 s (B84773M*)	V_{test}	1700	V DC
Test voltage line to case for 2 s (B84773A*)	V_{test}	2000	V AC
Test voltage line to case for 2 s (B84773M*)	V_{test}	2500	V AC
Rated temperature	T_R	40	°C
Climatic category (IEC 60068-1)		25/085/21	

Characteristics and ordering codes of B84773*A000
 $V_R = 250 \text{ V AC/DC}$

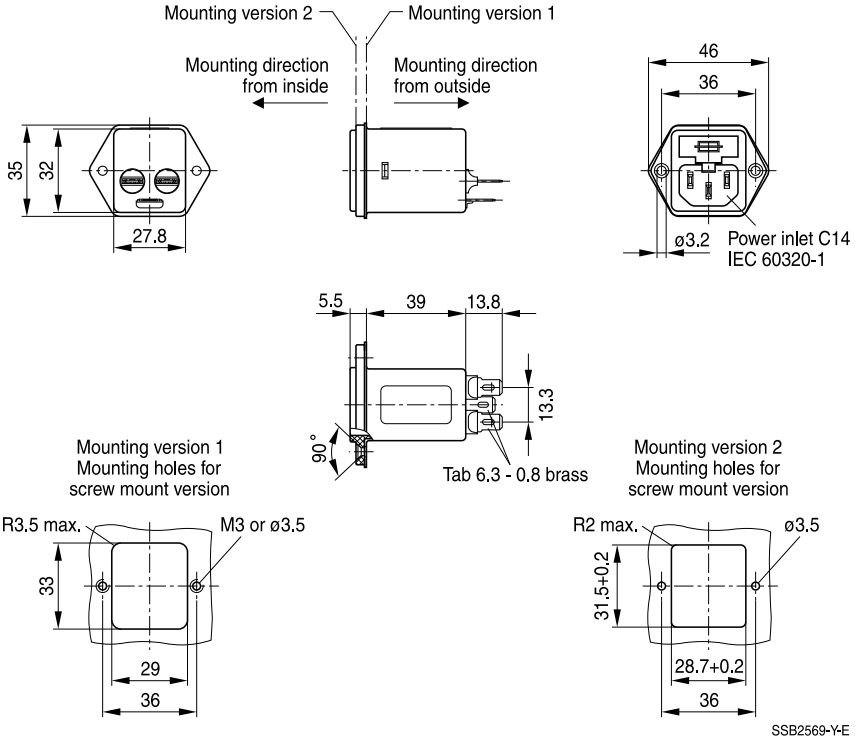
I_R	C_R X2	C_R Y2	L_R	$I_{leak}^{1)}$	R_{bleed}	Approx. weight	Ordering code	Approvals
A	μF	pF	mH	mA	M Ω	g		  
1	1 × 0.1	2 × 2200	2 × 5.4	0.173	1	55	B84773A0001A000	P × ×
	1 × 0.1	–	2 × 5.4	0	1	55	B84773M0001A000	P × ×
2	1 × 0.1	2 × 2200	2 × 2.7	0.173	1	55	B84773A0002A000	P × ×
	1 × 0.1	–	2 × 2.7	0	1	55	B84773M0002A000	P × ×
4	1 × 0.1	2 × 2200	2 × 1.1	0.173	1	55	B84773A0004A000	P × ×
	1 × 0.1	–	2 × 1.1	0	1	55	B84773M0004A000	P × ×
6	1 × 0.1	2 × 2200	2 × 0.3	0.173	1	55	B84773A0006A000	P × ×
	1 × 0.1	–	2 × 0.3	0	1	55	B84773M0006A000	P × ×
10	1 × 0.1	2 × 2200	2 × 0.2	0.173	1	75	B84773A0010A000	P × ×
	1 × 0.1	–	2 × 0.2	0	1	75	B84773M0010A000	P × ×

× = approval is granted

P = approval is pending

1) Calculation according draft proposal IEC 60939–1 Ed. 3 (2008–10–29), annex A. "Calculation of leakage current" at 50 Hz. In practice are up to double values to be expected due to the insulation resistance values of the used ceramic capacitors. For the medical version results computationally the value 0. In practice are values 1 ... 2 μA to be expected due to the insulation resistance values of the used materials.

Dimensional drawing



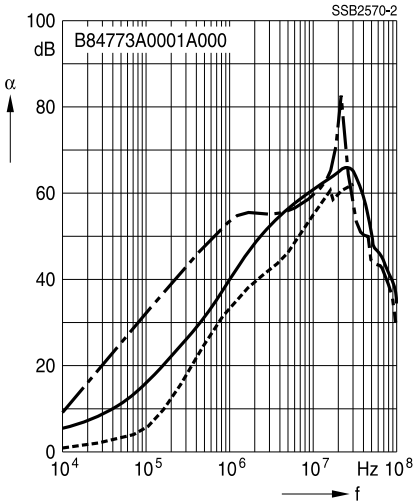
Dimensions in mm
ISO 2768-cl

IEC inlet filters

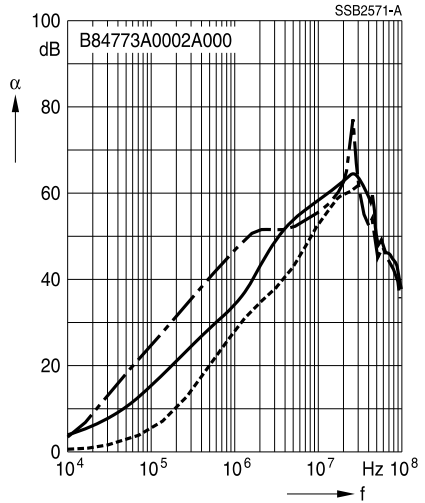
Insertion loss (typical values at $Z = 50 \Omega$)

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

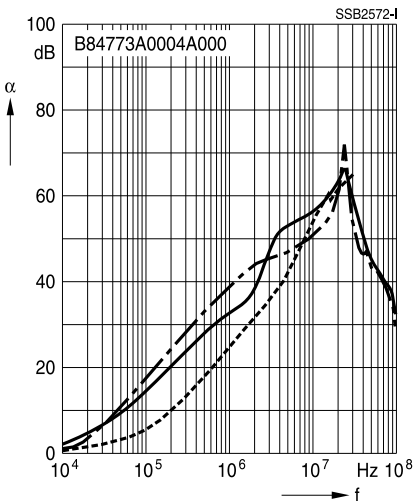
Filter for 1 A



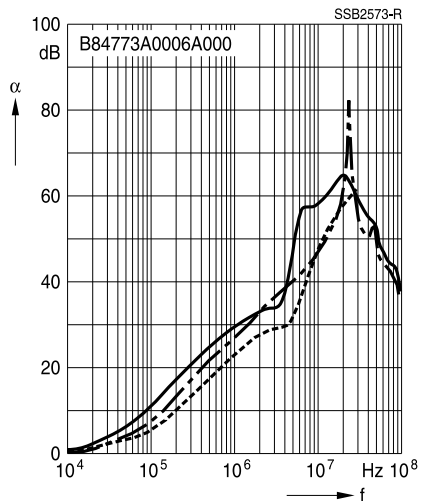
Filter for 2 A



Filter for 4 A



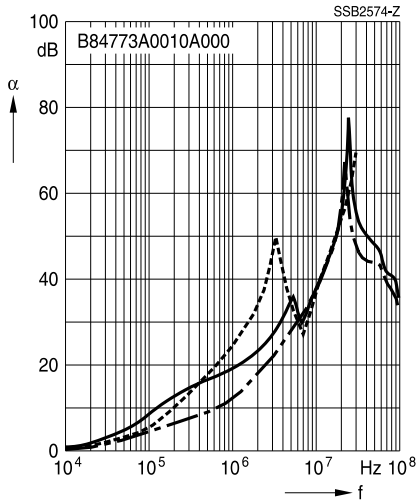
Filter for 6 A



Insertion loss (typical values at $Z = 50 \Omega$)

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

Filter for 10 A

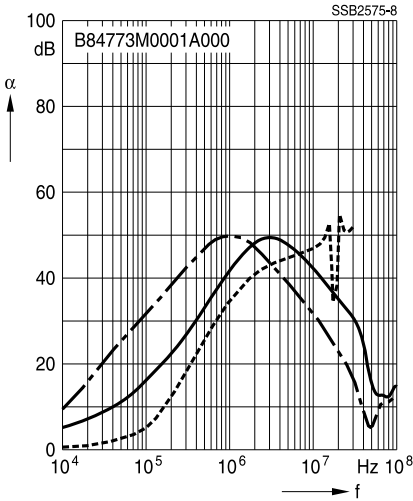


IEC inlet filters

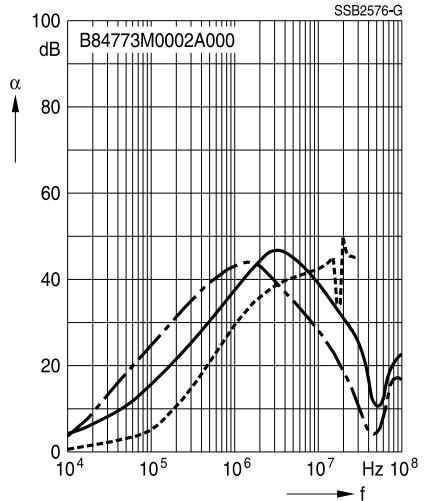
Insertion loss (typical values at $Z = 50 \Omega$)

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

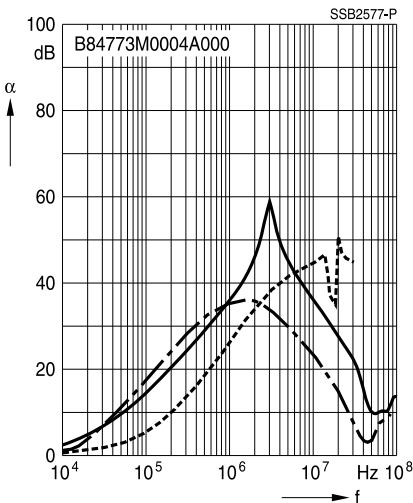
Filter for 1 A



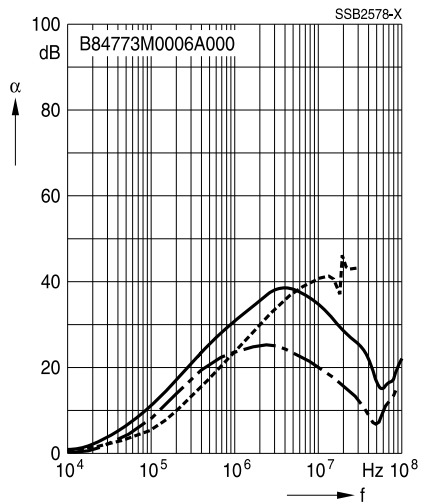
Filter for 2 A



Filter for 4 A



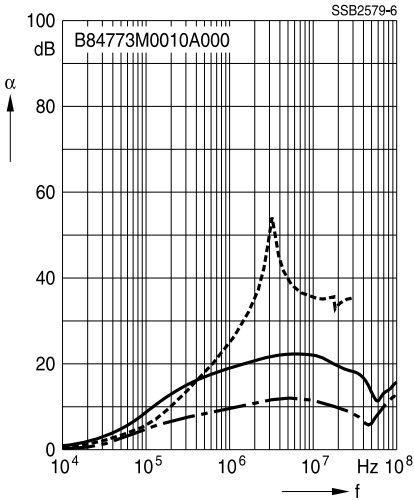
Filter for 6 A



Insertion loss (typical values at $Z = 50 \Omega$)

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

Filter for 10 A



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