

1, 3, 6 & 10A IEC inlet with line filter



The FCSS combines an EMI filter with an IEC320-C14 inlet, to provide excellent attenuation in a compact module. They are available as either snap-in (FCSSSxxPFR) or screw mount (FCSSSxxSFR) for consumer, commercial, ITE & instrumentation type applications.

When fitted to mains powered equipment, they provide excellent attenuation to conducted electro-magnetic interference from the mains supply, whilst reducing any conducted emissions from within the equipment onto the mains supply.



Features

- ▶ IEC320-C14 filtered inlet
- ▶ Single fuse
- ▶ Screw mount & snap-in versions
- ▶ Compact design
- ▶ ITE Applications
- ▶ Voltage range 0 to 250VAC
- ▶ Current rating 1, 3, 6 & 10A
- ▶ 6.3 x 0.8mm faston terminals
- ▶ Bleed resistor
- ▶ Shielded metal body
- ▶ Wide operating temperature range
- ▶ 3 year warranty

Applications

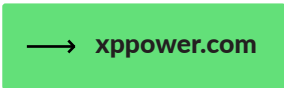


Dimensions

See mechanical details

Documentation

For further information click the link or scan the code



Models & ratings

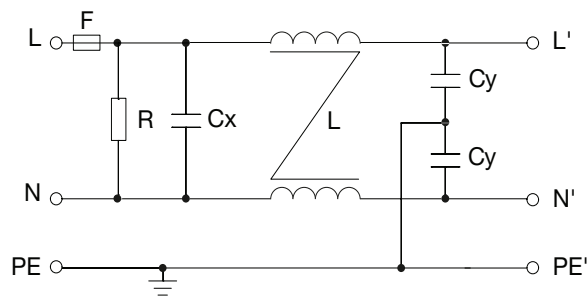
Model number/ filter	Rated current at 50°C	Leakage current		Inductance at 10kHz, 0.25V	Capacitance		Resistance	Weight	Application	Mounting
		115VAC/60Hz	250VAC/50Hz		Cx	Cy				
FCSSS01SFR	1A	0.25mA	0.45mA	2 x 6.5mH	0.1µF	2 x 2.2nF	1MΩ	55g	ITE	Screw
FCSSS03SFR	3A			2 x 2.5mH				55g		Screw
FCSSS06SFR	6A			2 x 0.8mH				53g		Screw
FCSSS10SFR	10A			2 x 0.2mH				56g		Screw

Specification

Characteristic	Minimum	Typical	Maximum	Units	Notes & conditions
Rated voltage			250	VAC	
Input frequency	DC		400	Hz	
Rated current	1		10	A	See models and ratings
Earth leakage current	0.25		0.48	mA	See models and ratings
MTBF	1.35			Mhrs	MIL-HDBK 217F, 250VAC at +40°C
Flammability rating	UL94V-2				
Temperature operating	-40		+110	°C	See derating curve
Safety approvals	EN60939-2				Passive filter units for EMI suppression
	ANSI/UL1283				Electromagnetic Interference Filters
Terminals	Faston 6.3 x 0.8mm straight				
Protection class	Suitable for appliances with protection Class I				
Dielectric strength		1500		VAC	

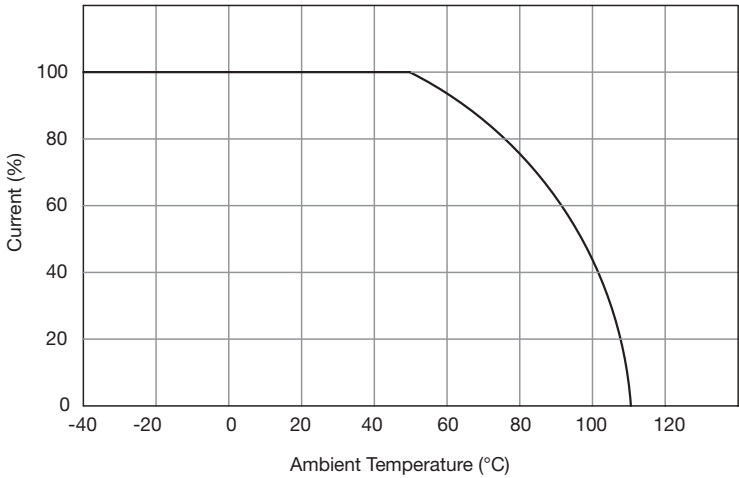
Application notes

Electrical schematic



Note: Fuses not supplied

Thermal derating

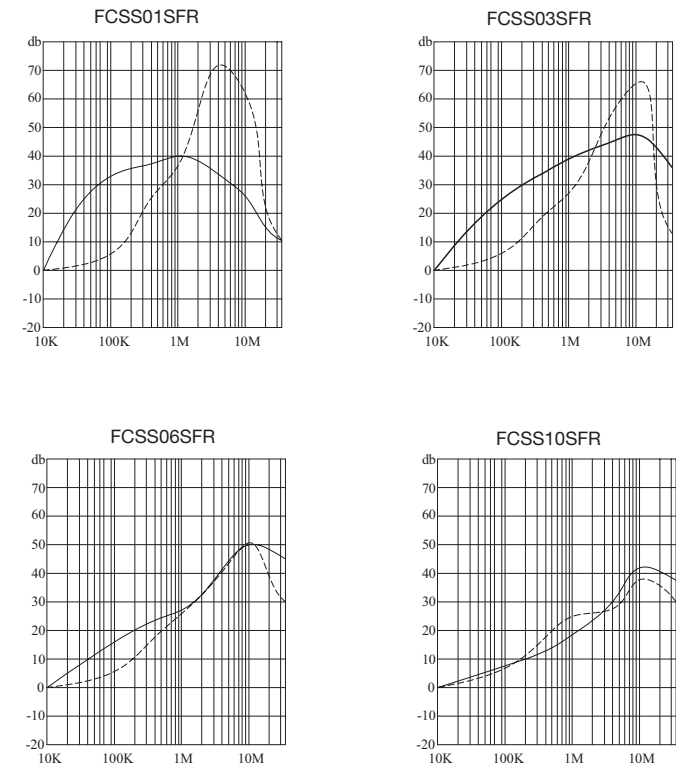


Application notes

Typical attenuation curves

Per CISPR 17, 50 Ω system

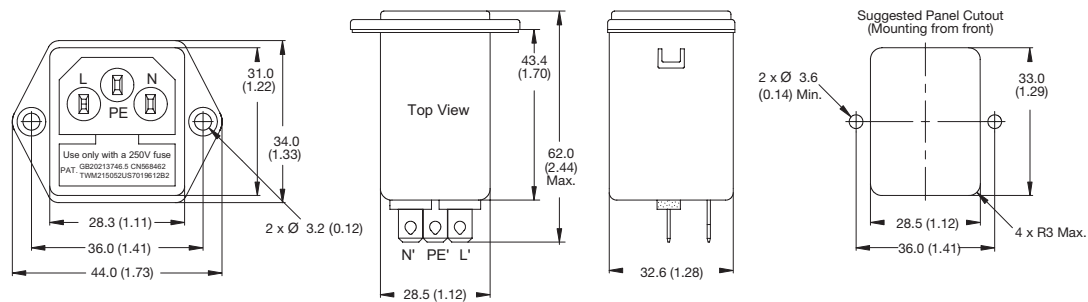
———— Asymmetrical (Common Mode)
----- Symmetrical (Differential Mode)



Safety approvals

Safety Agency	Standard	Notes & conditions
CE	Meets all applicable directives	
UKCA	Meets all applicable legislation	

Mechanical details



Output Terminals: 6.3mm x 0.8mm Fast-ons

Notes:

1. All dimensions are in inches (mm)