

# U203 High Transient Filter

Current Ratings: **3 and 10** AMPS.

Operating Voltage: Single Phase, Three Stage 230V A.C.

These filters have been designed to be fitted externally to existing Military systems in order to reduce the effects of imported transients. In particular those due to the Differential tests of Def Stan 59-41 DCS11, and 12 and the Common mode tests of DCS 05. The filters therefore have greater than 15dB Differential mode attenuation at 10kHz and greater than 30dB Common mode attenuation at 100kHz - 50MHz to imported signals. The output impedance has been kept low in order to minimize the risk of any interaction with any filters/power supplies fitted into the system load. The filters have little impact on EMC exported from the system load, and little impact on the Power Factor of any system load



## TYPICAL APPLICATIONS

- Shielded enclosures
- IT installation
- Computer rooms
- Banks
- Military installations

## TECHNICAL ADVANTAGES

- High current capability - Micro size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit application

## COMMERCIAL ADVANTAGES

- Assists compliance with the EMC directive
- State of the art technology ensures superior performance
- Competitively priced
- Compact size - Reduced weight - Cost effective

## Technical Specifications

Current (A)	No of Lines	Max Voltage / Frequency  2 Line	Max AC Volt Drop @ Full Load	Earth Leakage mA Std	Inductance Per Line (Typical) mH	Transient Energy Absorption (Typical)	Storage Temp Range	Temp Rise @ Full Load	Termination Type Military connector	Dimensions											
										A	B	C	D	E	F	G	H	J	K	L	
3	2	DC - 60Hz	<2V/Line	4	4	75J Optional	-25 ~ +85°C	<40°C	INPUT CECC 75 201-002 CA98 MCN OUTPUT A01G CECC 75 201-002 CA98 FCN A01G	180	60	80	163	56	120	20	45	M6 x 12mm Thread	5.2mm DIA	M4 x 8mm Thread	
10					6				CECC 75 201-002 CE6 MCN OUTPUT A01G CECC 75 201-002 CE6 FCN A01G	240	75	130	218	86	160	22	60		6.2mm DIA		

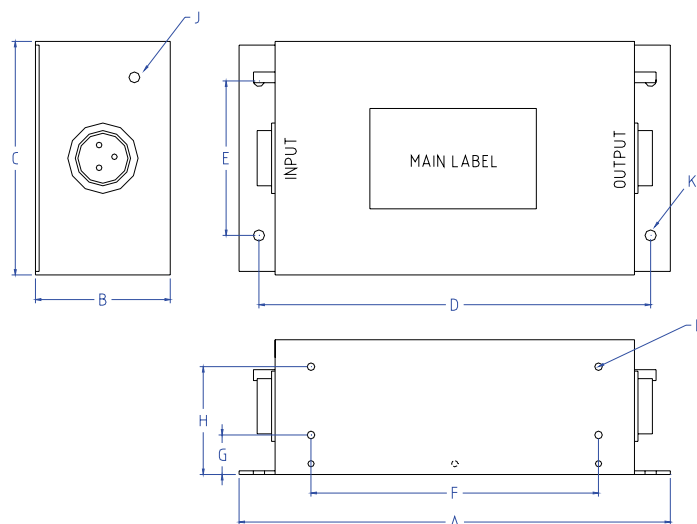
## STANDARDS

The U203 range of filters is built in accordance with the relevant BS, VDE, UL, CE & CSA safety standards. All Total EMC Products Ltd filters & power supplies are designed to meet the latest requirements for Health and Safety, Particularly EN 60939-2-2005

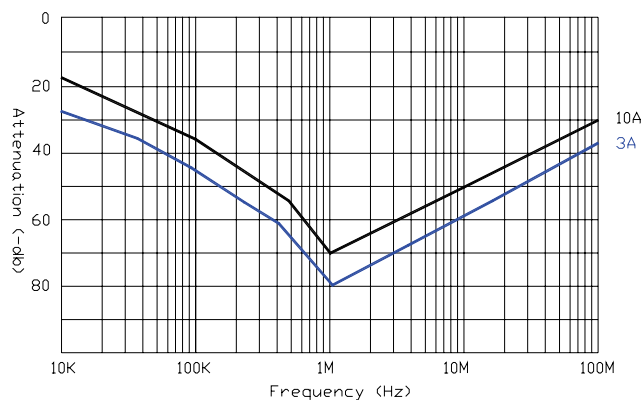
## REGULATIONS

From the 15th of December 2004 all electrical/electronic apparatus - with few exceptions - sold or taken into service within the European Community must comply with the essential requirements of the EMC directive 2004/108/EC. Failure to do so is a criminal offence in the U.K.

## Dimensional Data



## Performance characteristics insertion loss curves (estimated)



## Part number / Ordering information

**AMS/003/2/2/T**  
3 AMP 2 LINE 2 STAGE TRANSIENT

**AMS/010/2/2/T**  
10 AMP 2 LINE 2 STAGE TRANSIENT

In addition to the standard range of filters & power supplies, Total EMC Products specialize in the design and manufacture of filters to suit your specific requirements. Due to continuous development Total EMC Products Ltd reserve the right to amend any information contained within this datasheet without prior notice.

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