

Din Filter Range

Current Ratings: **3, 10, 13** AMPS.

Operating Voltage: Single Phase 230V A.C, Three Phase 415V A.C.

The DIN1 range of filters have been specifically designed to overcome the inherent EMC/RFI 'noise' problems typically encountered by system and control panel builders, where devices such as variable speed motor drives, thyristor driven equipment, PLC's, air conditioners, fan controllers and switch mode power supplies are common place. Such equipment switch high voltages and currents to achieve efficiency, this generates radio frequency interference (RFI) and high surge voltages, which have the potential to disturb or damage other circuits.

The DIN1 filter range is a high performance filter design in a 2 line format, with excellent noise suppression characteristics particularly at low frequencies where switching power devices need it most.

The filters components are housed in a compact din rail mounted enclosure, thus making it the ideal EMC/RFI solution for all system and panel builders where space typically is a premium.



TYPICAL APPLICATIONS

- Variable speed motor drives
- Thyristor driven equipment
- Air conditioners/fan controllers
- Programmable logic controllers
- Switch mode power supplies
- OEM/Machinery applications

TECHNICAL ADVANTAGES

- High current saturation, Typically 3 times rated current
- Filters attenuation characteristics remain constant even in long lead applications
- Low A.C. volt drop
- High insertion loss in common mode
- Compact size
- All connectors are screw terminals
- Optional grades of transient suppression to suit application

COMMERCIAL ADVANTAGES

- Assists client's equipment to meet EC requirements
- Latest RFI component technology ensures superior performance at a more competitive price
- Increased system reliability & efficiency
- Equipment/System downtime reduced
- Operation and service costs reduced

Technical Specifications

Current (Amps)	No of Lines	Operating Voltage @ 50-60Hz	Max AC Volt Drop @ Full Load	Earth Leakage mA	Inductance Per Line (Typical) mH	Storage Temp Range	Temp Rise @ Full Load	Termination Type	Dimensions		
									A	B	C
3	2	230V	<1V/Line	1	2	-25 ~ +85°C	<35°C	Screw Terminals	76	110	225
10					1						
13					0.8						

STANDARDS

The DIN1 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

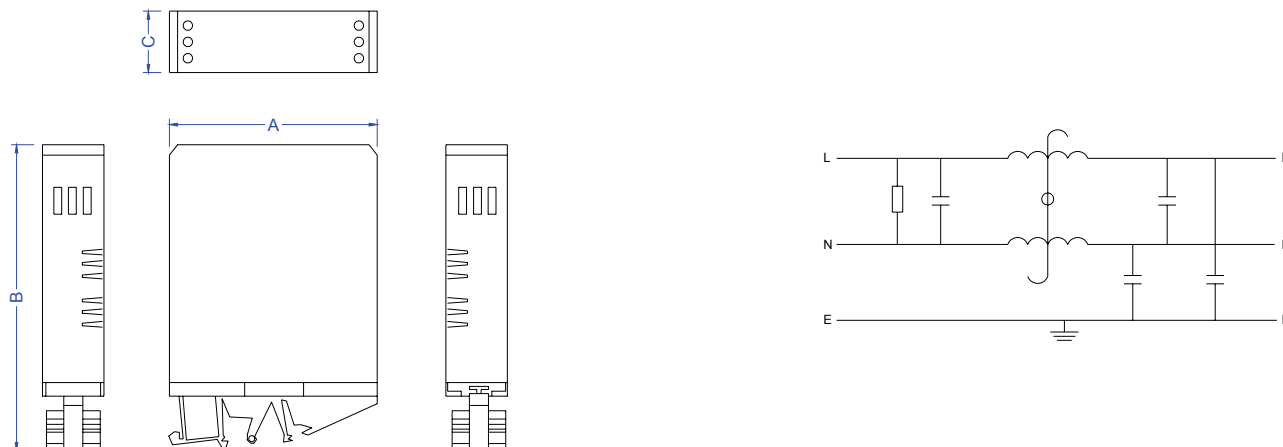
The DIN1 range is specifically designed to assist AC input - DC Output industrial frequency converters to meet European and International Emission standards. eg. EN55011, EN55014, EN55022 and EN61000.

REGULATIONS

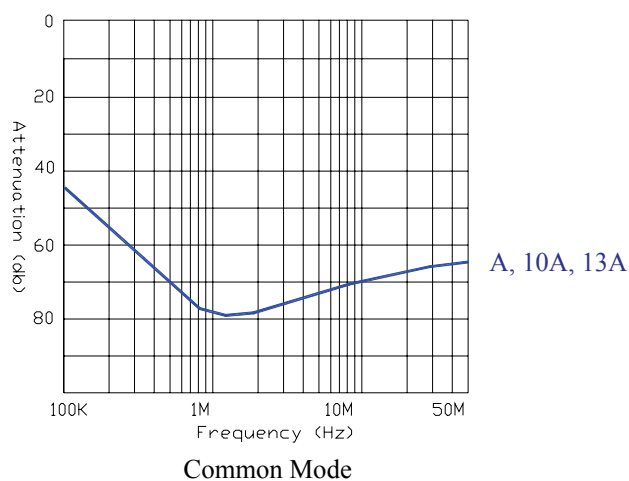
From the 15th of December 2004 all electrical/electronic apparatus - with few exceptions - sold or taken into service within the European Community must comply with the essential requirements of the EMC directive 2004/108/EC.

Failure to do so is a criminal offence in the U.K.

Dimensional Data & Schematic(s)



Performance characteristics insertion loss curves



Part number / Ordering information

DIN1/0/2/1/***

DIN1 = Range of filter

2 = No of Lines on filter

***** = Options (listed below)

******* = Amp Rating of filter

1 = No of Stages on filter

Options: T = Transient, H = High Transient, - = neither (no options)

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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