

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 and 3 line formats, 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.

GENERAL OVERVIEW

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 clients 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.

REGULATIONS

From the 1st of January 1996 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 89/336/EEC. Failure to do so is a criminal offence in the U.K.

STANDARDS

The DIN1 range of filters are built in accordance with the relevant BS, VDE, UL, CE & CSA safety standards. All EMC Solutions filters & power supplies are designed to meet the latest requirements for Health and Safety, Particularly EN 133200
The DIN1 range is specifically designed to assist AC input - DC Output industrial frequency converters to meet European Emission standards. eg. EN55011, EN55014, EN55022, EN50081-2 and EN50081-1.



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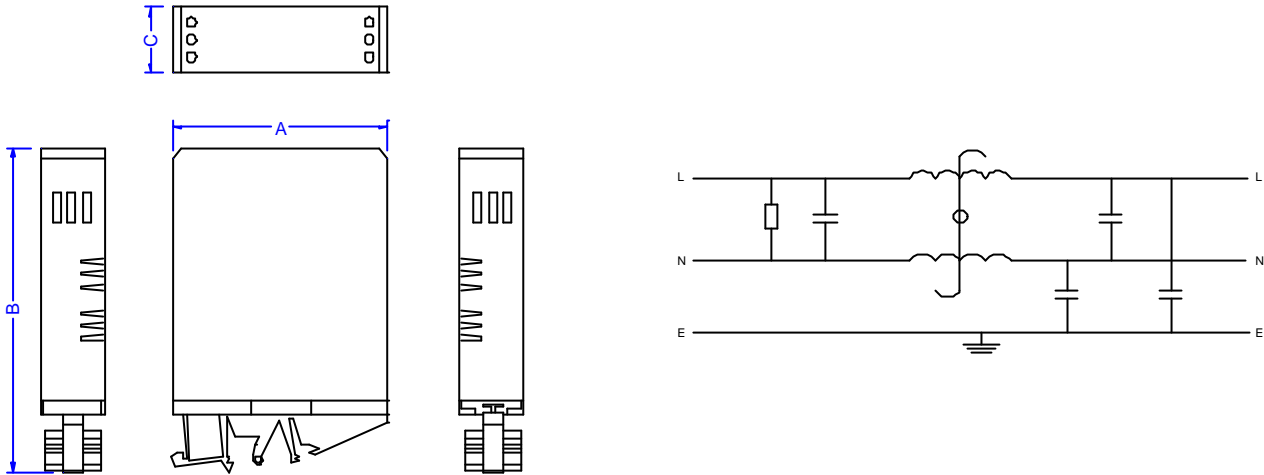
TECHNICAL DATA

TECHNICAL SPECIFICATIONS

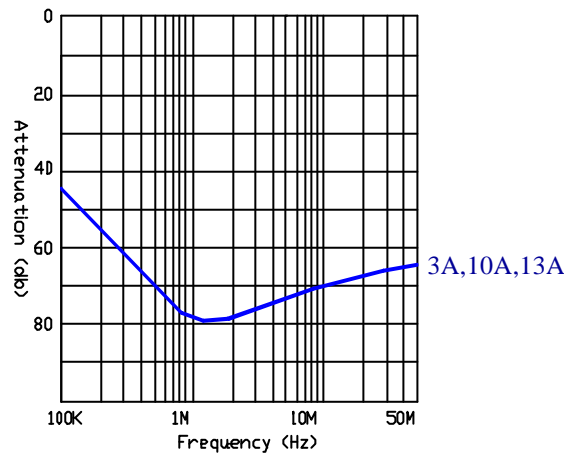
Current (Amps)	No of Lines	Operating Voltage @ 50-60Hz	Max AC Volt Drop @ Full Load	Earth Leakage mA	Inductance Per Line (Typical) mH	Storage Temp Range	Temperature Rise @ Full Load <40°C	Termination Type	Dimensions A	Dimensions B	Dimensions C
3	2	230V	<1V/Line	1	2	-25 to +85°C	<35°C	Screw Terminals	76	110	22.5
10					1		<35°C		76	110	22.5
13					0.8		<35°C		76	110	22.5

DIMENSIONS & ELECTRICAL SCHEMATIC

All dimensions in mm



PERFORMANCE CHARACTERISTICS INSERTION LOSS CURVES



Common mode

ORDERING INFORMATION

DIN1/***/2/1/*

AMP RATING
NO OF LINES
NO OF STAGES
OPTIONS (Listed below)

OPTIONS: T = Transient, H = High Transient, - = No Options
e.g. DIN1/010/2/1/- (This is a 10A 2 Line Single stage unit with no options).

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

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