


DATASHEET

SINGLE PHASE EMI FILTER – MF420VF

Description

These series range of High Performance filters are designed to suppress undesirable electrical disturbances in variable frequency drives applications.

Technical Specifications

| | |
|--------------------------------------|--|
| Maximum Continuous Operating Voltage | 250VAC |
| Operating Frequency | 50/60Hz |
| Current ratings | 1A to 40A @40°C |
| High Potential test voltage | L to G 2120Vdc for 1 Minute L to L 1414Vdc for 1 Minute |
| Overload Capability | 135% of Rated current for 15 minutes |
| Design Corresponding to | CSA 22.2 No.8-13 and UL-60393-3 |
| Flammability corresponding to | UL 94 V-0 |
| Temperature range | -25°C to +85°C |
| Climatic Category | 25/85/21 |
| Enclosure Material/Finish | CRCA/Nickel Plated – 1A to 30A Aluminium – 40A |

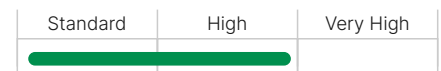
Approval & Compliance

Features

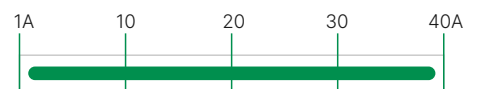
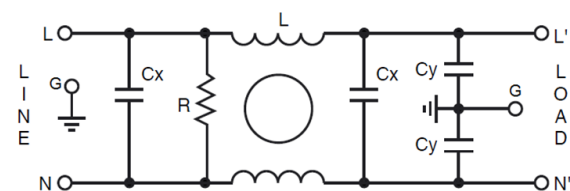
- Medical Version available
- High Conducted attenuation performance
- Chassis mounting

Applications



- Power Systems
- Electronic Equipment
- Frequency converters
- Variable Frequency drives
- UPS/Inverters

Performance Indicator


Rated current [A]

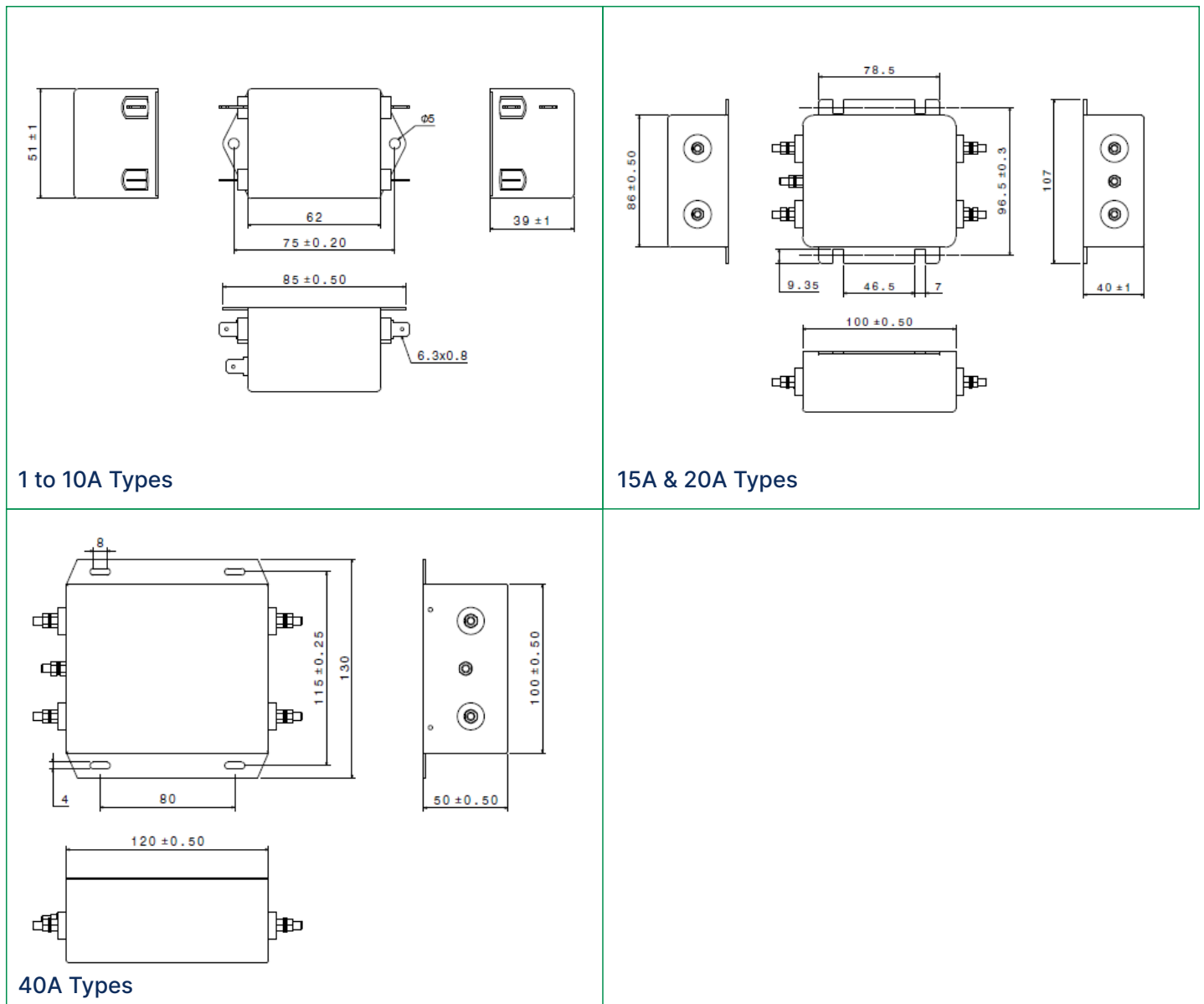

Typical circuit Diagram


Ordering Code Information

| Part Number | Ordering Code | Rated Current @40°C | Leakage Current @250VAC/50Hz (mA) | Termination | | Weight (Kgs) |
|--------------|---------------|---------------------|-----------------------------------|---|---|--------------|
| | | | |  |  | |
| MF420VF - 01 | E102480-1 | 1A | 7.4 | 6.3 x 0.8 | | 0.26 |
| MF420VF - 03 | E100136-3 | 3A | 7.4 | 6.3 x 0.8 | | 0.26 |
| MF420VF - 06 | E100136-2 | 6A | 7.4 | 6.3 x 0.8 | | 0.26 |
| MF420VF - 10 | E100299-1 | 10A | 7.4 | 6.3 x 0.8 | | 0.26 |
| MF420VF - 15 | E100987-1 | 15A | 7.4 | | M5 | 0.5 |
| MF420VF - 20 | E100593-1 | 20A | 7.4 | | M5 | 0.5 |
| MF420VF - 40 | E102481-1 | 40A | 7.4 | | M5 | 1 |

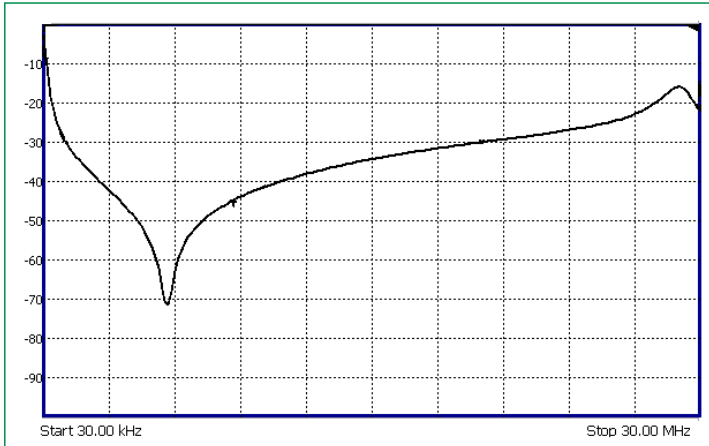
Note: Customized filters are provided on request.

Mechanical Drawing

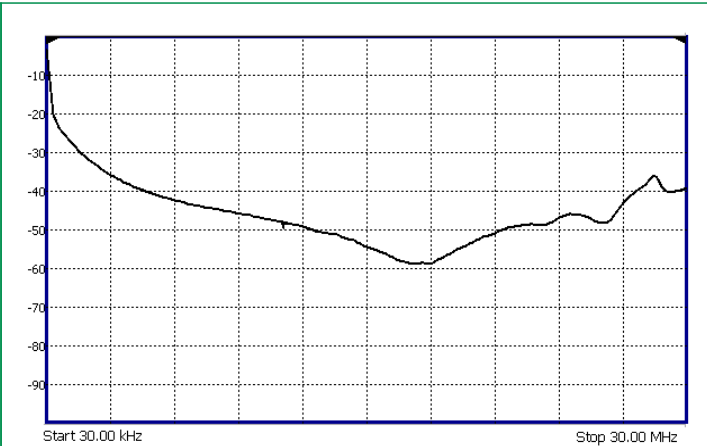


Note: All dimensions in mm; Tolerances according to ISO 2768-m

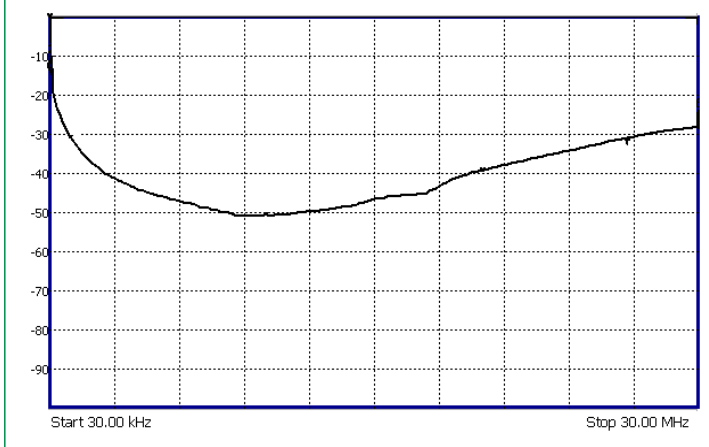
Insertion Loss – (Common Mode)



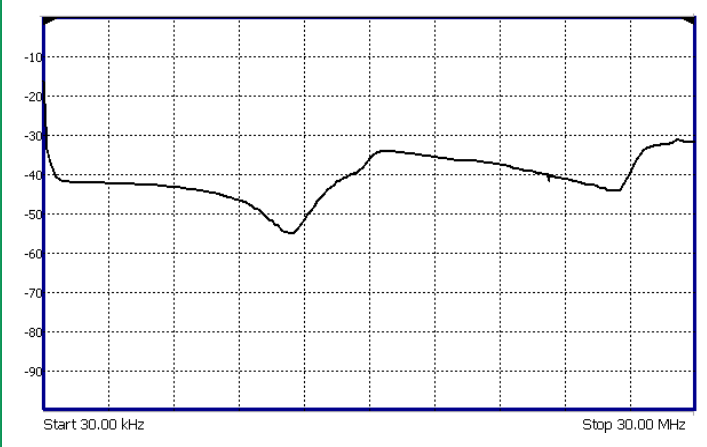
1A



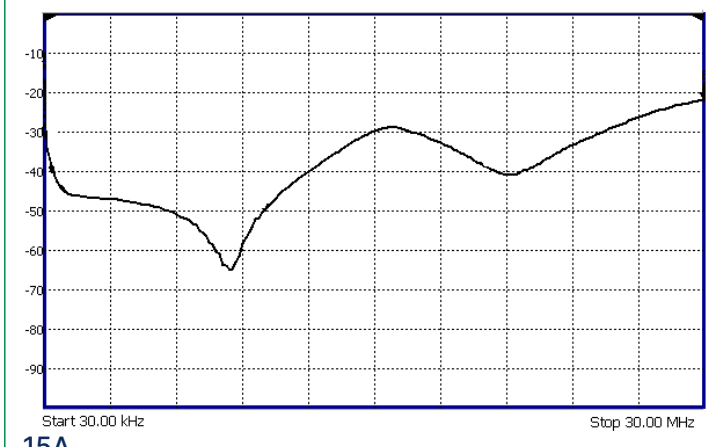
3A



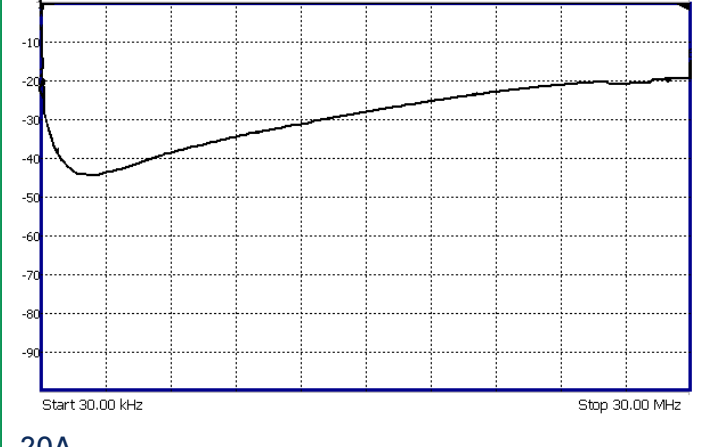
6A



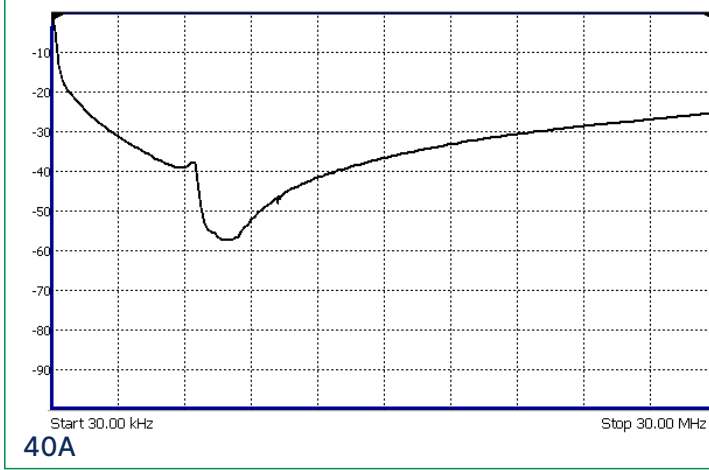
10A



15A



20A



40A