



DATASHEET

# THREE PHASE EMI FILTER – MF423 4 3DD BS

## Description

These series range of three phase filters with added differential mode in book shelf design give superior performance when used in applications with low Impedance loads controlling pulsed, continuous and intermittent interference noise and where high levels of mains borne interference are present.

## Technical Specifications

Maximum Continuous Operating Voltage	440VAC
Operating Frequency	50/60Hz
Current ratings	7A to 150A @40°C
High Potential test voltage	L to G 2660Vdc for 1 Minute L to L 1950Vdc for 1 Minute
Overload Capability	135% of Rated current for 15 minutes
Design Corresponding to	UL1283, CSA 22.2 No.8-13 and IEC 60939
Flammability corresponding to	UL 94 V-0
Temperature range	-25°C to +85°C
Climatic Category	25/85/21
Enclosure	Aluminium

## Approval & Compliance



## Features

3 Phase filters for drives/invertors

Compact/Light Weight/Cost Effective

Bookshelf Design

## Applications

CNC Machines

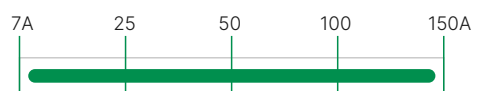
Robotics

Regenerative Drives

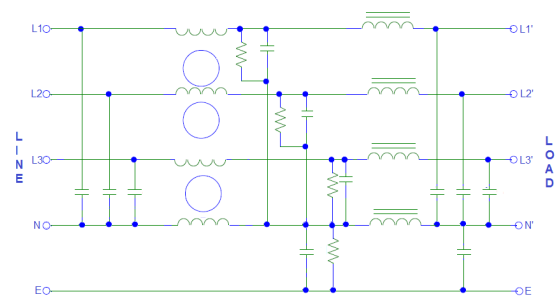
## Performance Indicator

Standard	High	Very High


Rated current [A]



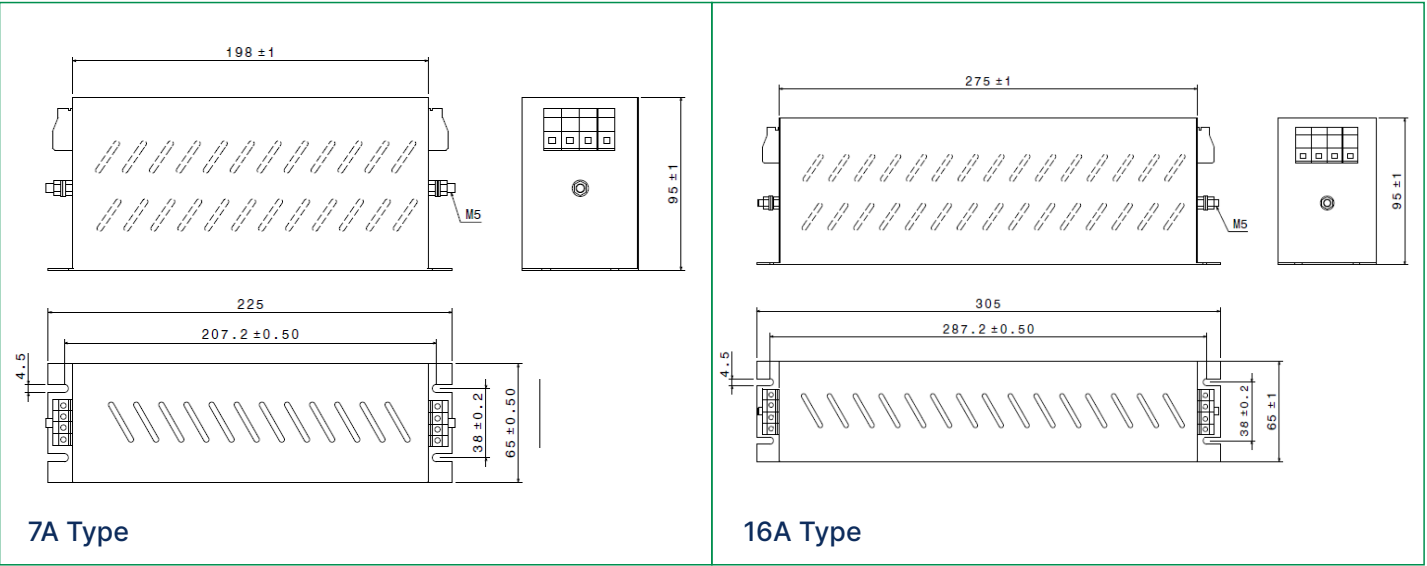
## Typical circuit Diagram

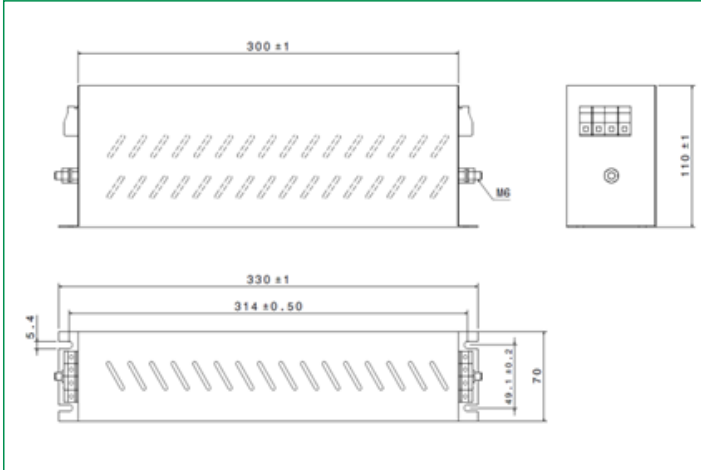


Ordering Code Information

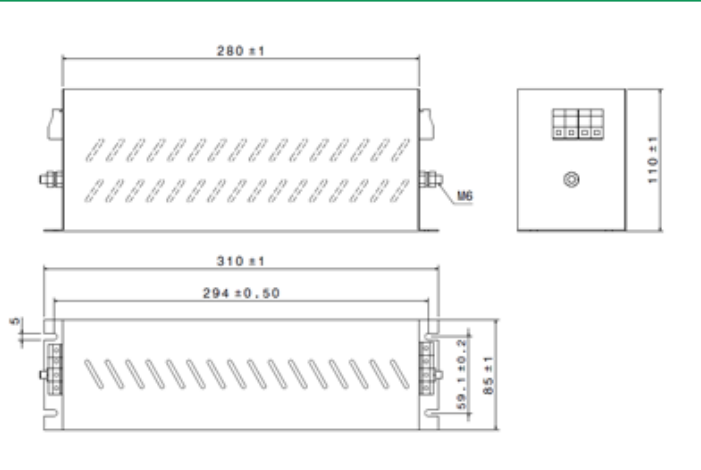
Part Number	Ordering Code (440 VAC)	Rated Current @40°C	Termination 	Weight (Kgs)
MF423 4 3DD BS	E100120-2	7A	41	1.5
MF423 4 3DD BS	E100120-3	16A	41	2
MF423 4 3DD BS	E100120-4	30A	41	2.2
MF423 4 3DD BS	E100120-5	42A	10	3
MF423 4 3DD BS	E100120-6	55A	10	3
MF423 4 3DD BS	E100120-7	75A	16	4
MF423 4 3DD BS	E100120-8	100A	25	4
MF423 4 3DD BS	E100120-9	125A	50	8
MF423 4 3DD BS	E100120-10	150A	50	10

Mechanical Drawing

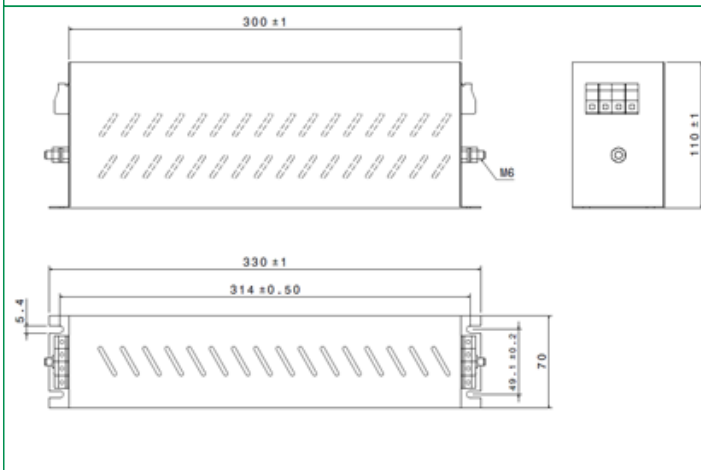




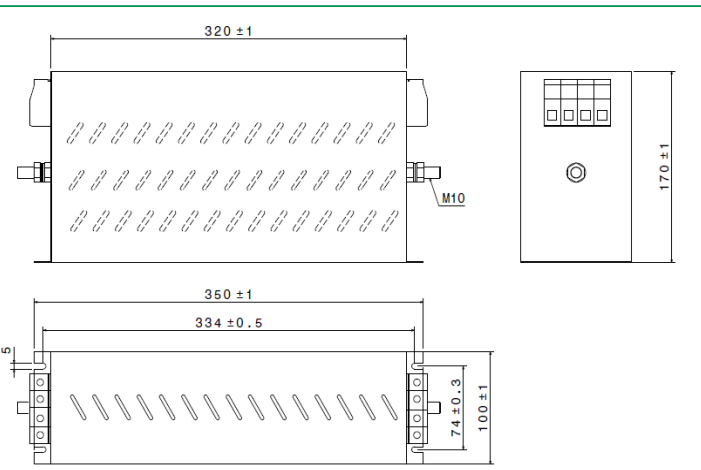
30A & 42A Types



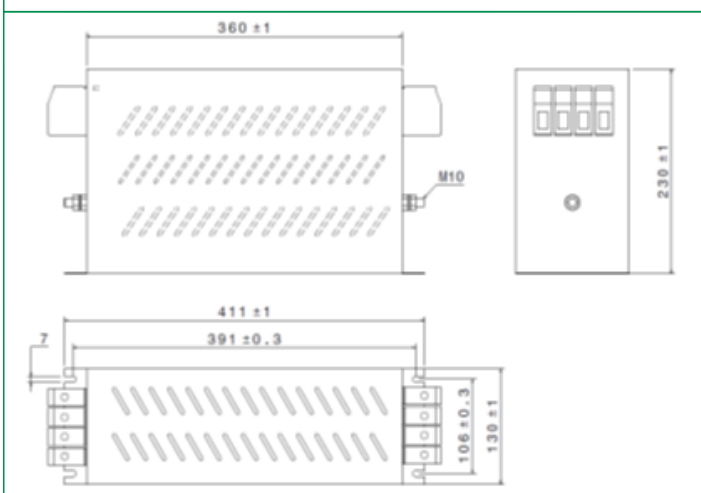
55A Types



75A Types



100A Types



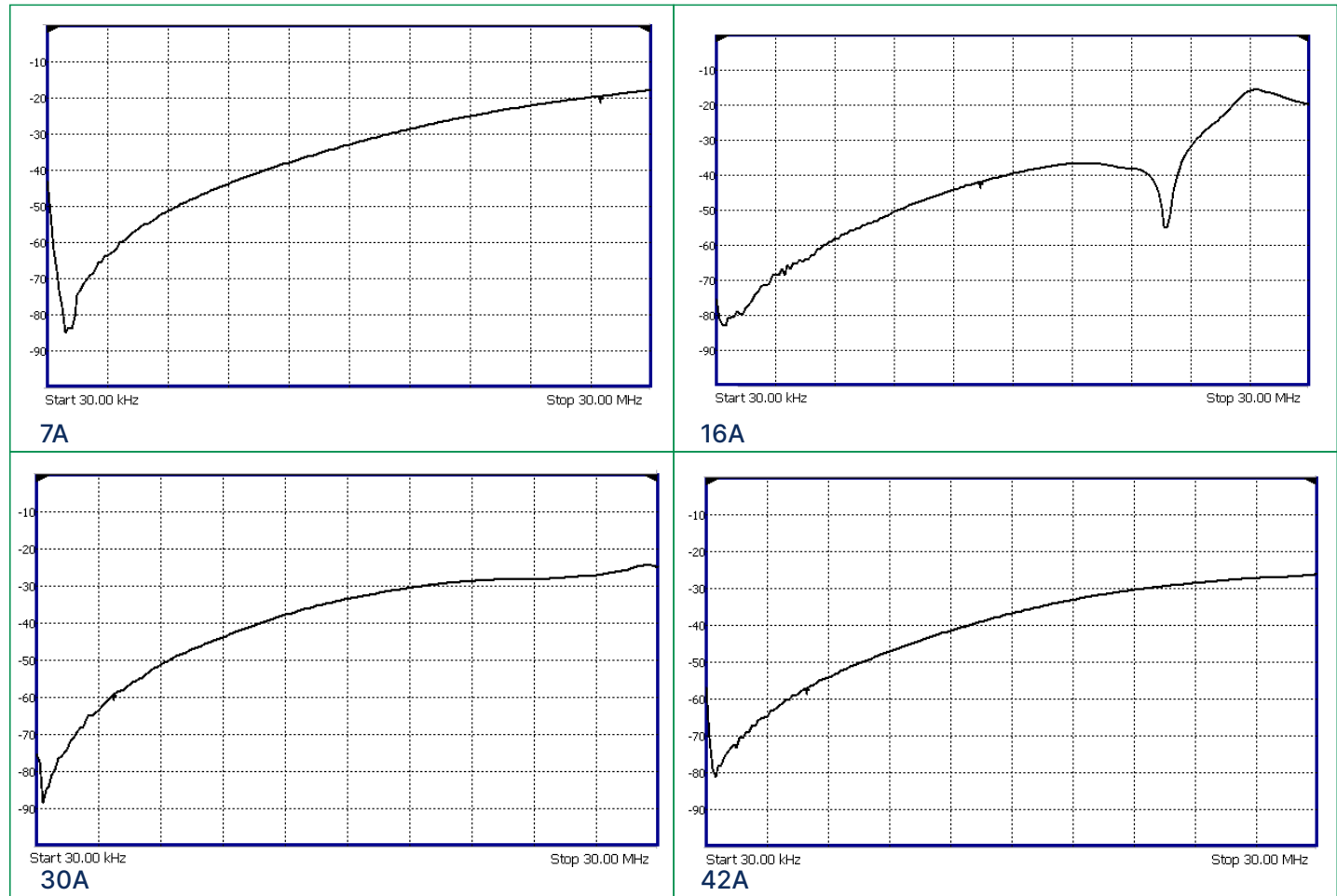
125A & 150A Types

Note: All dimensions in mm; Tolerances according to ISO2768-m

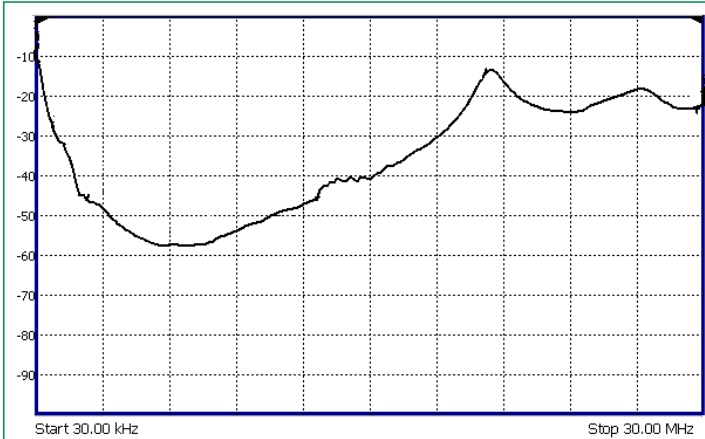
Connectors Cross Sections

	41	10	16	25	50
Wire Section (mm²)	4mm²	10 mm²	16 mm²	25 mm²	50 mm²
Wire Section (AWG)	12AWG	8 AWG	6 AWG	4 AWG	1/0 AWG
Wire Stripping	Max 10mm	max 13.5 mm	max 17 mm	max 17 mm	max 20 mm
Max Recommended Torque	0.5 Nm / 4.5 in.lbs	1.2 Nm / 10.8 in.lbs	2÷2.2 Nm / 18÷19.8 in.lbs	2 Nm / 18 in.lbs	6 Nm / 54 in.lbs

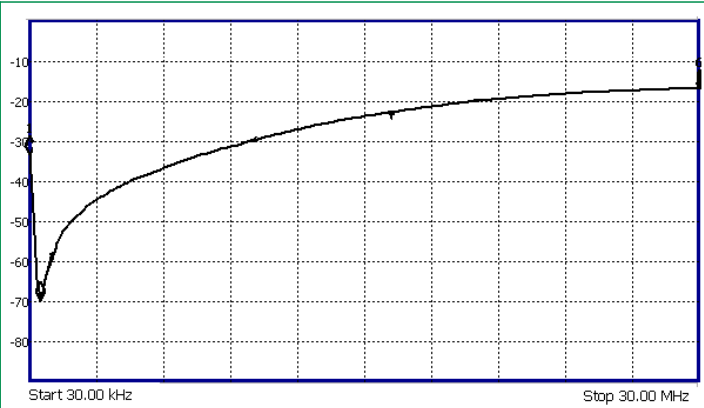
Insertion Loss – (Common Mode)



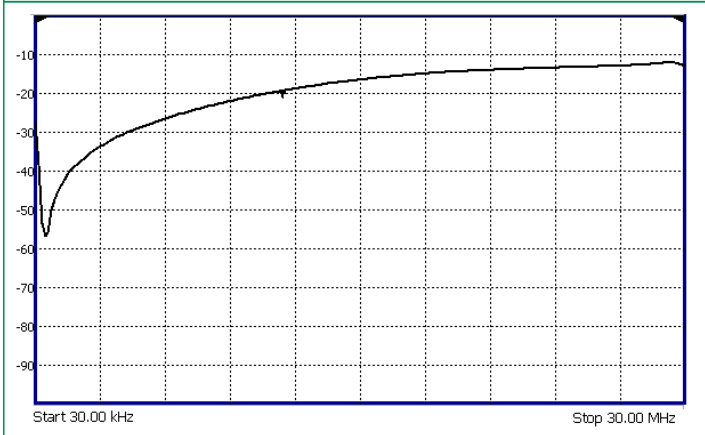
Insertion Loss – (Differential Mode)



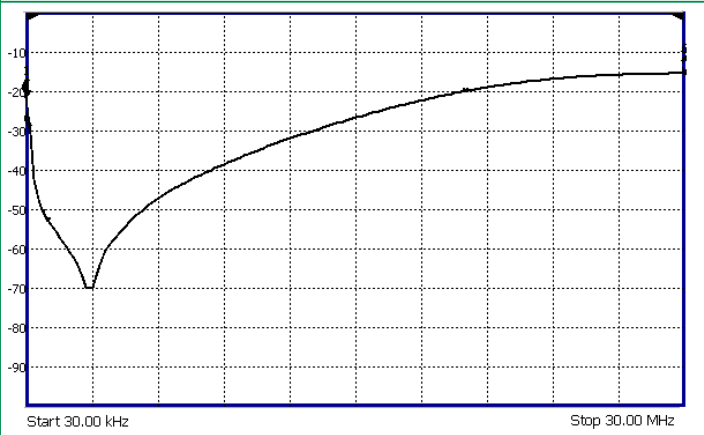
55A



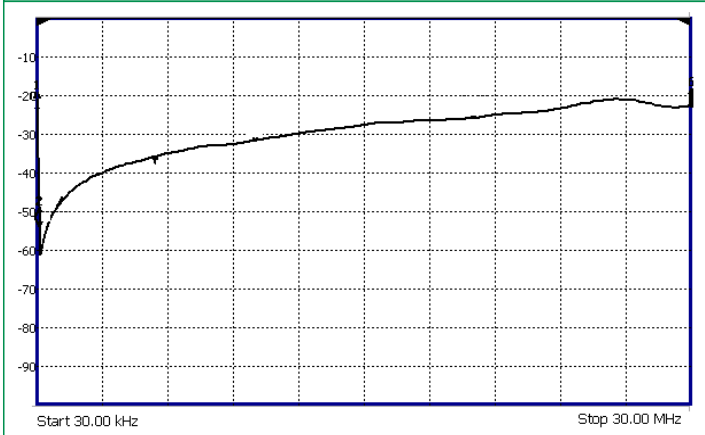
75A



100A



125A



150A