


DATASHEET

THREE PHASE EMI FILTER - MF423 4 2D

Description

These series range of three phase filters with neutral designed to use in wide range of applications. Give superior performance when used in applications with low Impedance load controlling pulsed, continuous and intermittent interference noise and where high levels of mains borne interference are present.

Technical Specifications

Maximum Continuous operating voltage	440/520VAC
Operating Frequency	50/60 Hz
Current ratings	6A to 250A @ 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	UL 60939-3, 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 Material	Aluminium

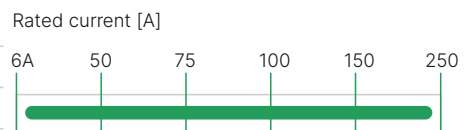
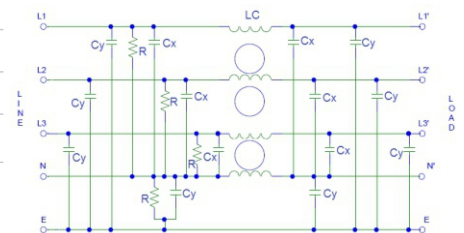
Approvals & Compliance

Features



- Compact
- Good Attenuation Performance
- Chassis mounting 3 Phase Filter with neutral

Applications

- CNC Machines
- Drives
- Convertors
- Rectifier
- HVAC

Performance Indicators

Typical Circuit Diagram


Ordering Code Information

Part Number	Ordering code (for 440VAC)	Ordering code (for 520VAC)	Rated Current @40°C	Termination		Weight (Kg)
						
MF 423 4 2D	E100071-2	E100771-2	6A	41		1
MF 423 4 2D	E100071-3	E100771-3	8A*	41		2
MF 423 4 2D	E100071-4	E100771-4	10A*	41		2
MF 423 4 2D	E100071-5	E100771-5	15A*	41		3
MF 423 4 2D	E100071-6	E100771-6	16A	41		3
MF 423 4 2D	E100071-7	E100771-7	20A*	41		3
MF 423 4 2D	E100071-8	E100771-8	25A	41		3
MF 423 4 2D	E100071-9	E100771-9	36A	10		4
MF 423 4 2D	E100071-10	E100771-10	50A	10		4
MF 423 4 2D	E100071-11	E100771-11	60A	16		8
MF 423 4 2D	E100071-12	E100771-12	75A	16		8
MF 423 4 2D	E100071-13	E100771-13	80A*	25		9
MF 423 4 2D	E100071-14	E100771-14	100A*	25		9
MF 423 4 2D	E100071-16	E100771-16	125A*		M10	10
MF 423 4 2D	E100071-17	E100771-17	150A*		M10	10
MF 423 4 2D	E100071-18	E100771-18	160A*		M10	10
MF 423 4 2D	E100071-19	E100771-19	170A*		M10	10
MF 423 4 2D	E100071-20	E100771-20	200A*		M10	11
MF 423 4 2D	E100071-21	E100771-21	250A*		M10	11

*Not covered under NEMKO

Filters with 520VAC are not covered under NEMKO.

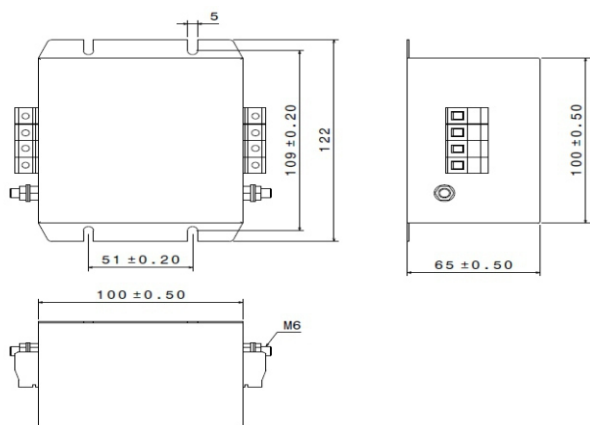
Connectors Cross Sections

	41	10	16	25
Wire Section (mm ²)	4mm ²	10mm ²	16mm ²	25mm ²
Wire Section (AWG)	12AWG	8 AWG	6 AWG	4 AWG
Wire Stripping	Max 10mm	Max 13.5mm	Max 17mm	Max 17mm
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

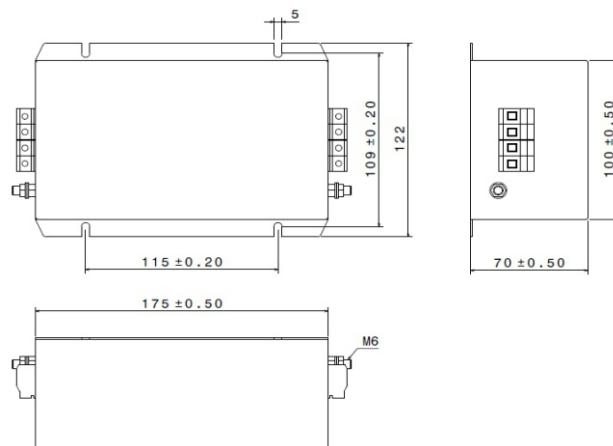
For Screw Type Connections

Thread Size	M10
Recommended Torque (Nm)	4-10

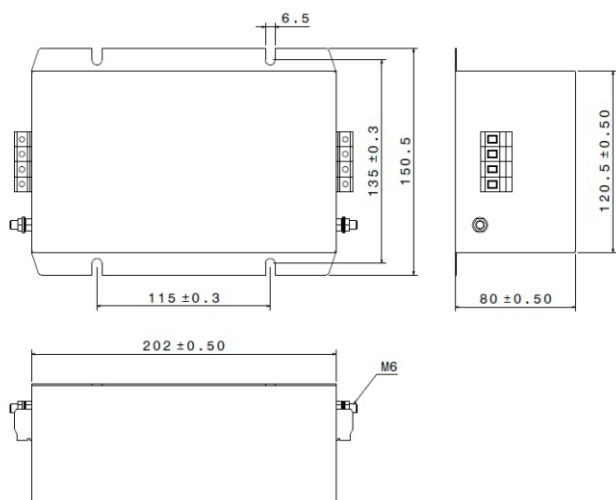
6A Types



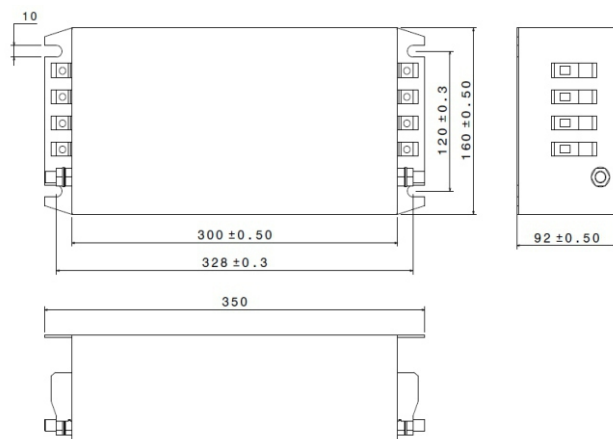
8A to 10A Types



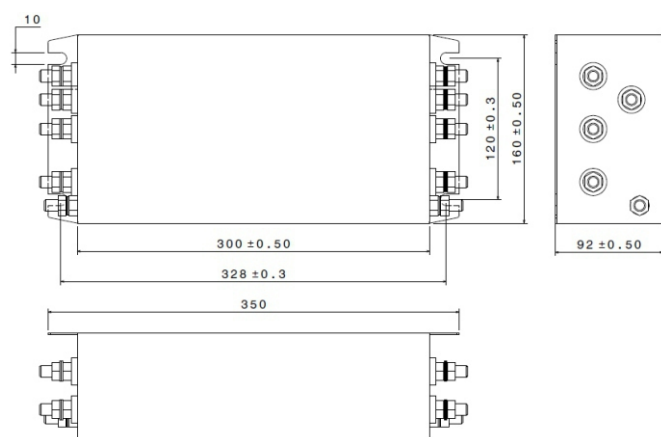
15A to 50A Types



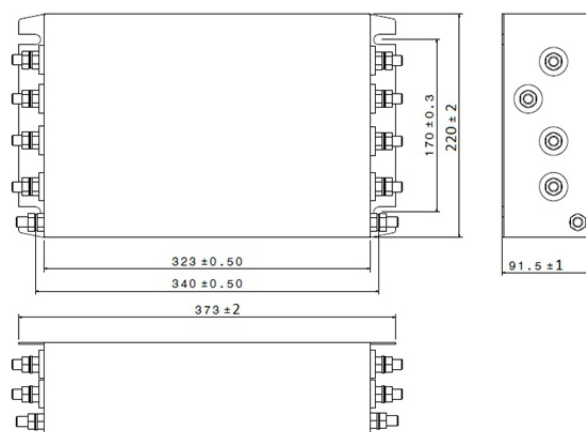
60A to 100A Types



125A to 160A Types

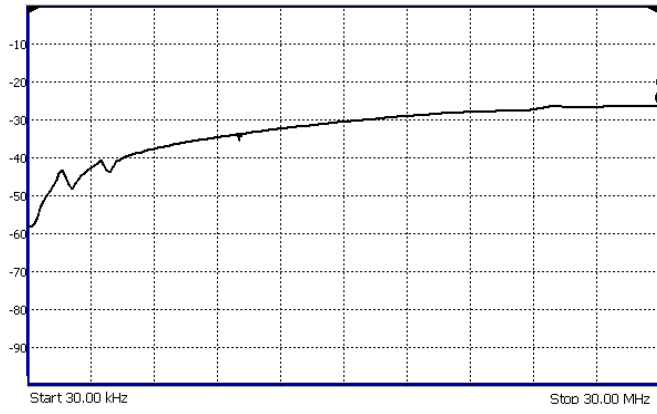


170A to 250A Types

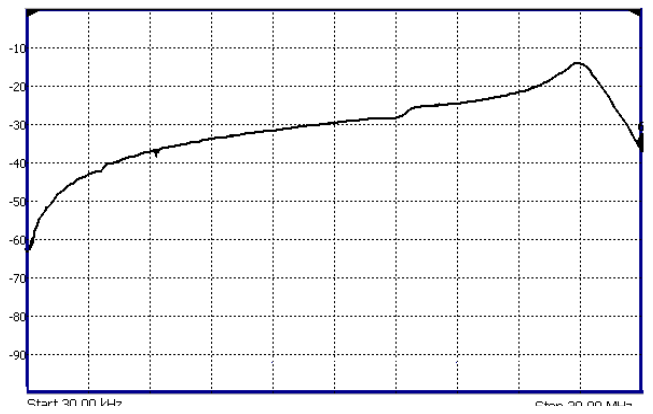


All dimensions in mm; Tolerances according to ISO2768-m

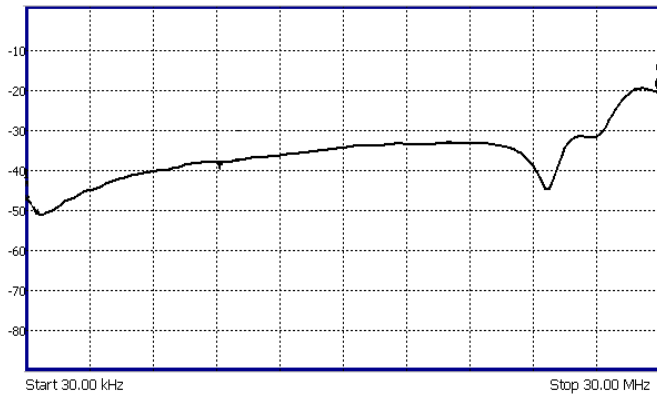
Insertion Loss - (Common mode)



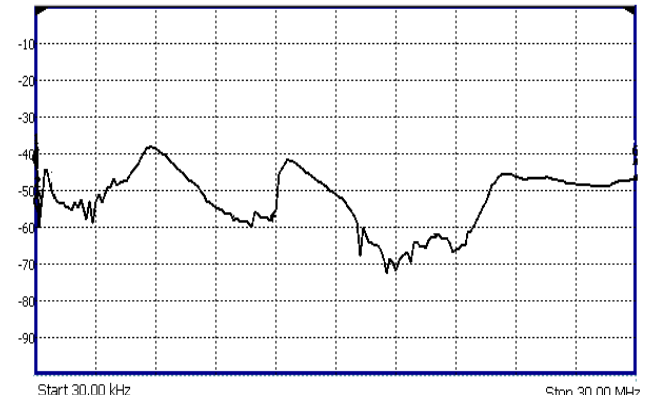
6A



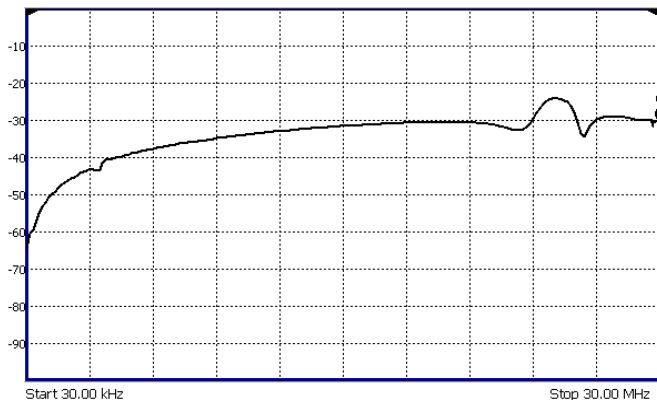
8A/10A



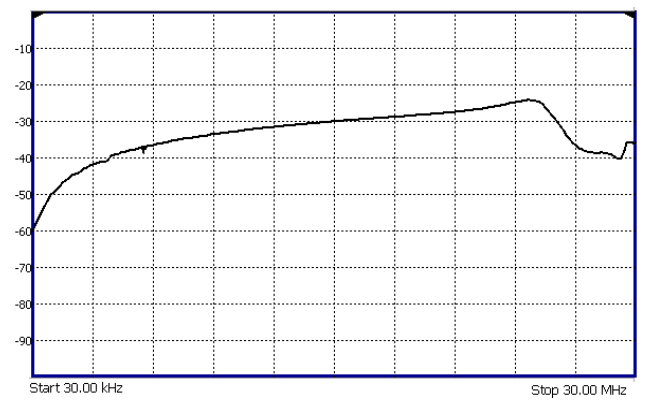
15A/16A



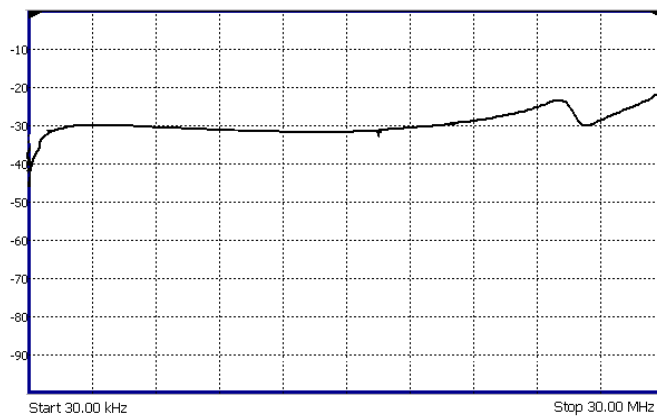
20A/25A



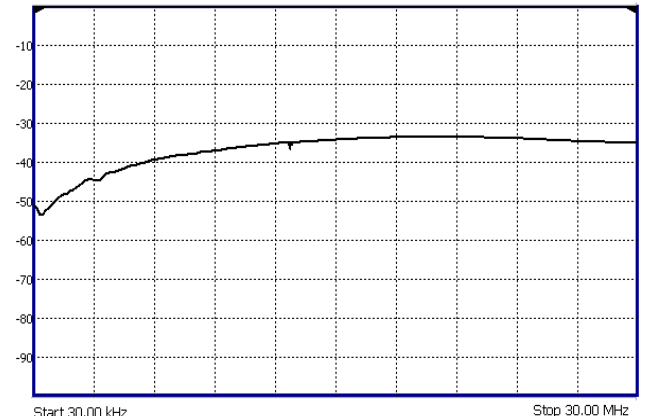
36A



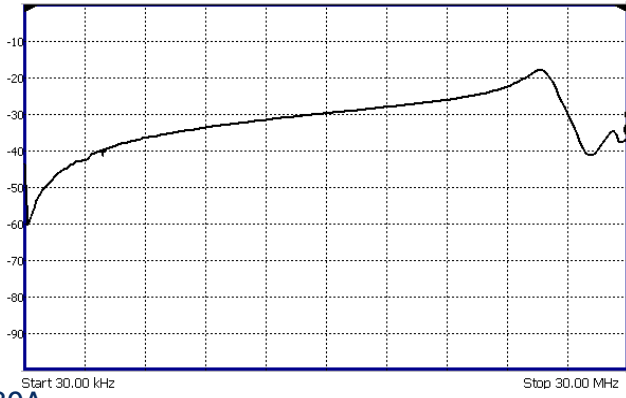
50A



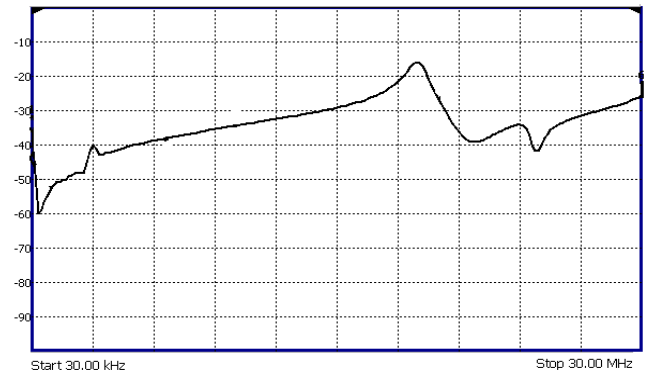
60A



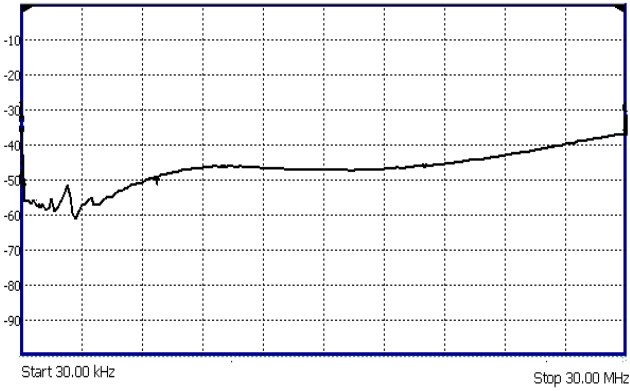
75A



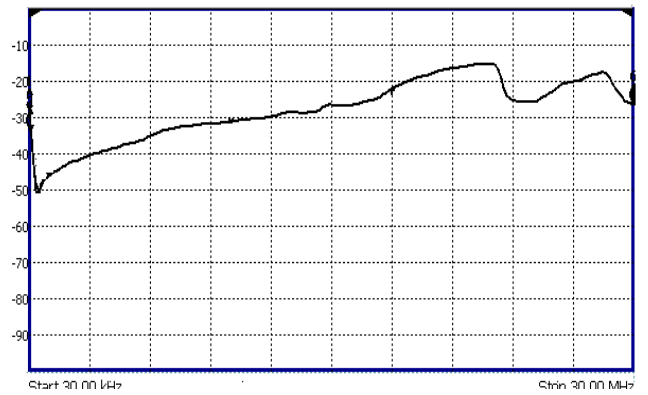
80A



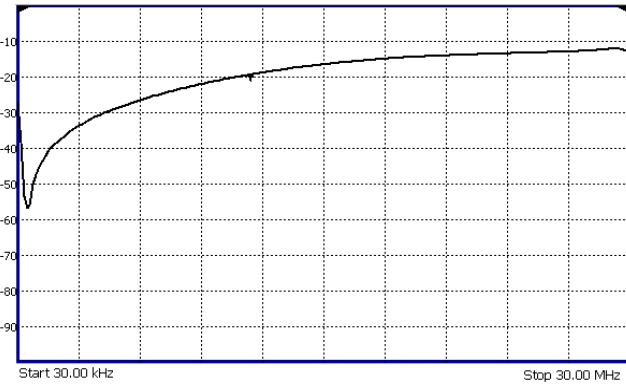
100A



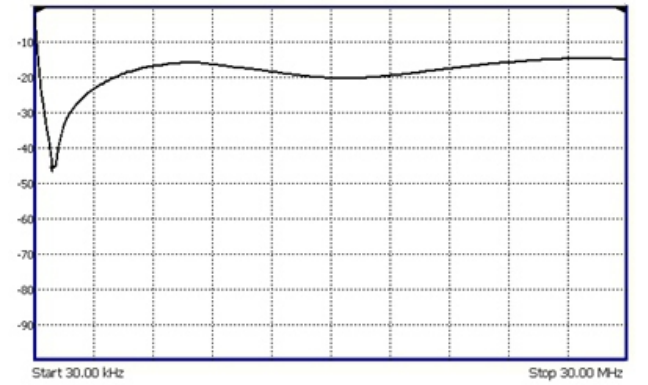
125A



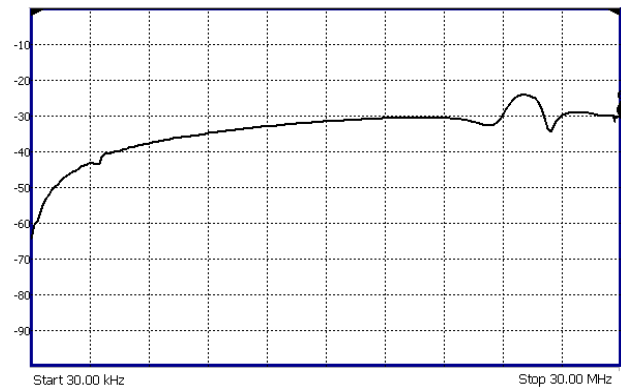
150A



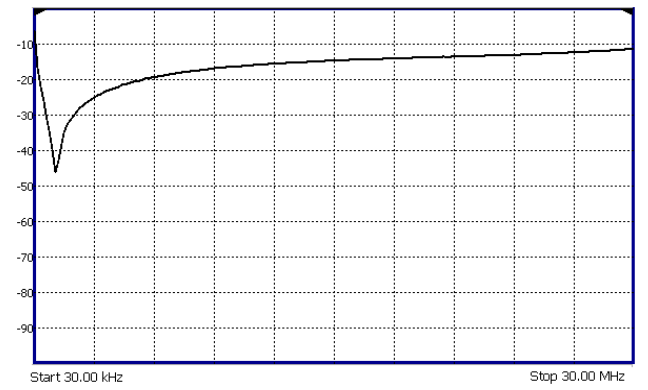
160A



170A



200A



250A