Data Sheet

Three Phase EMI Filter –Book Shelf Type with neutral - MF423 4 2D BS

Description

These series range of three phase filters with book shelf design is designed for motor drive applications requiring minimum space and convenient installation with superior performance at significant interference levels.

Features

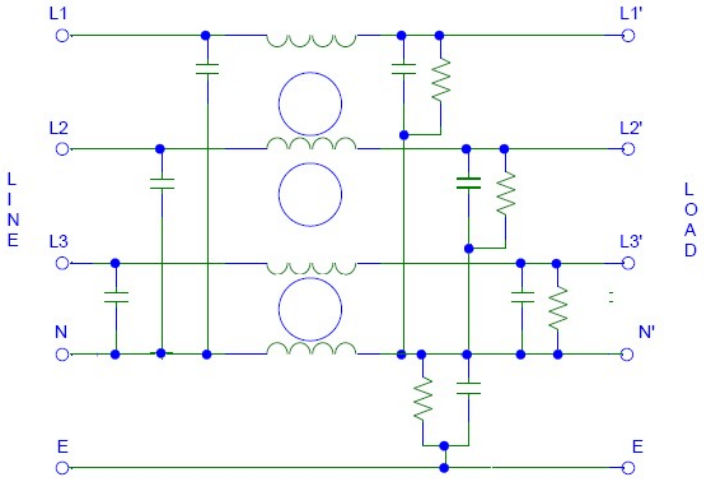
3 Phase filters for drives/invertors with neutral
Compact/Light Weight/Cost Effective
Bookshelf Design
7A to 150A rating

Applications

AC/DC Drives
CNC Machines
Robotics
Regenerative Drives

Approvals & Compliance

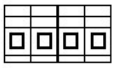
Typical circuit Diagram



Technical Specifications

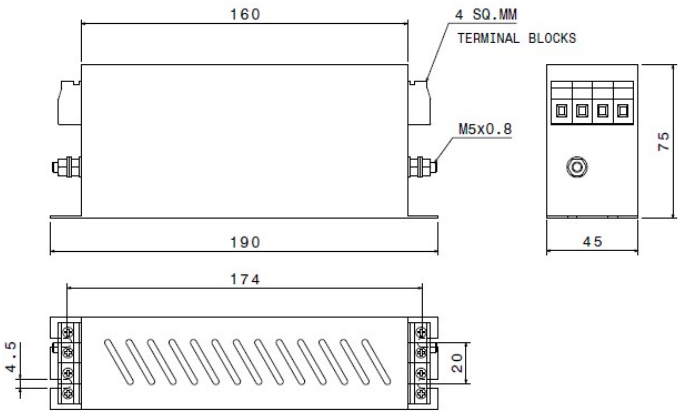
Maximum Continuous Operating Voltage	: 440/520VAC
Operating Frequency	: 50/60Hz
Current ratings	: 7A to 150A @40°C
High Potential test voltage	: L to G 2660Vdc for 1 Minute
	L to L 1950Vdc for 1 Minute
Overload Capability	: 135% of Rated current for 15 minutes
Design Corresponding to	: UL 60939-3, CSA 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	: Aluminium

Selection Table

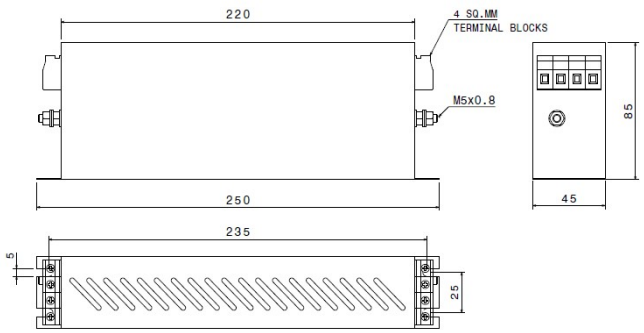
Part Number	Ordering Code (for 440VAC)	Ordering Code (for 520VAC)	Rated Current @40°C	Termination 	Weight (Kgs)
MF423 4 2D BS	S42DBS0007C	S42DBS5207C	7A	41	0.8
MF423 4 2D BS	S42DBS0016C	S42DBS5216C	16A	41	0.9
MF423 4 2D BS	S42DBS0030C	S42DBS5230C	30A	41	1.2
MF423 4 2D BS	S42DBS0042C	S42DBS5242C	42A	10	1.2
MF423 4 2D BS	S42DBS0055C	S42DBS5255C	55A	10	1.6
MF423 4 2D BS	S42DBS0075C	S42DBS5275C	75A	16	2
MF423 4 2D BS	S42DBS0100C	S42DBS5100C	100A	25	2.2
MF423 4 2D BS	S42DBS0125C	S42DBS5125C	125A	50	4
MF423 4 2D BS	S42DBS0150C	S42DBS5150C	150A	50	5

Mechanical Drawing

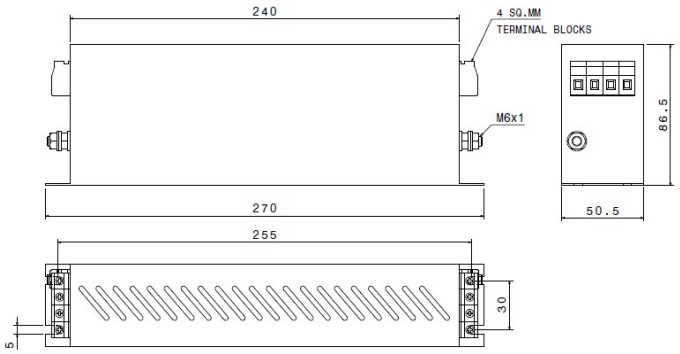
7A Types



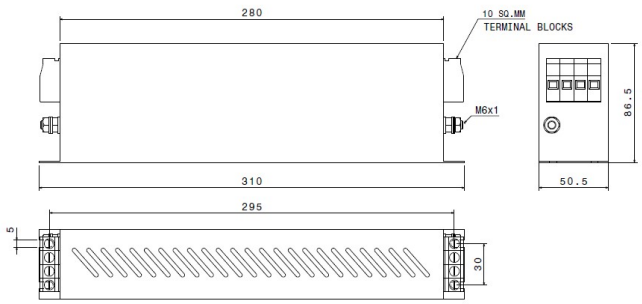
16A Types



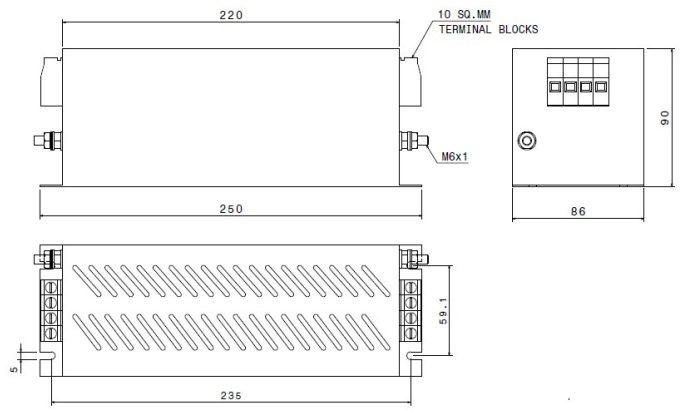
30A Types



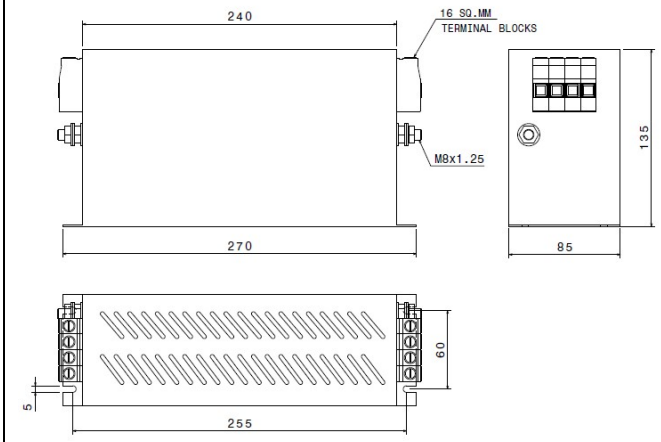
42A Types



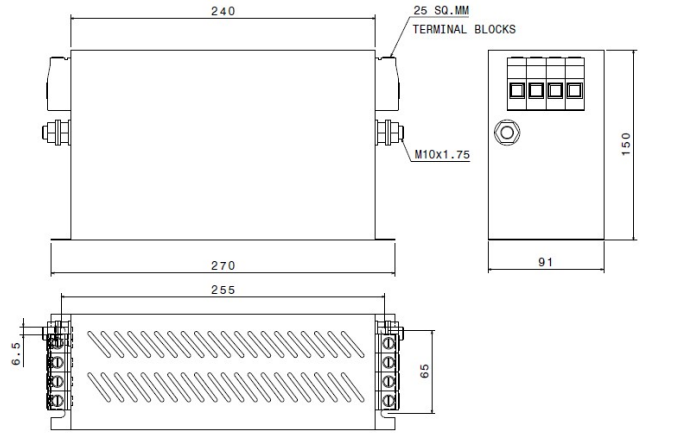
55A Types



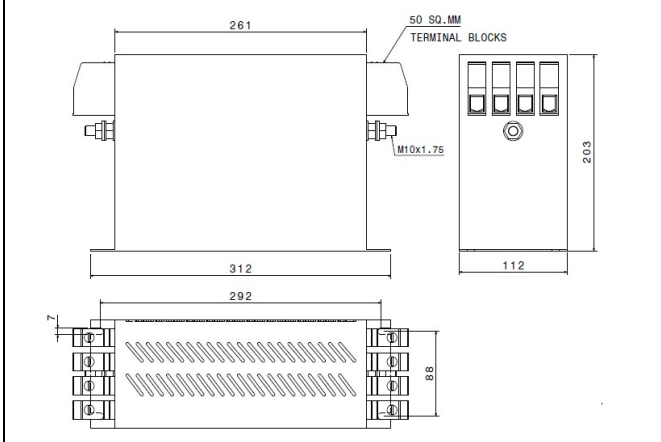
75A Types



100A Types



125A/150A Types



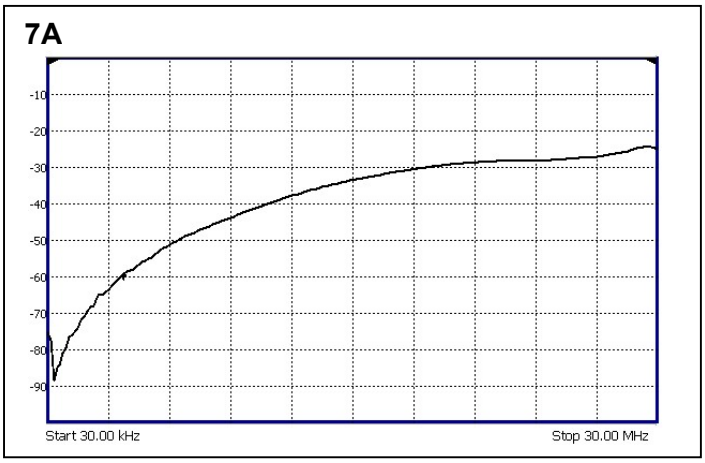
All dimensions in mm; Tolerances according: ISO2768-m

Connectors Cross Sections

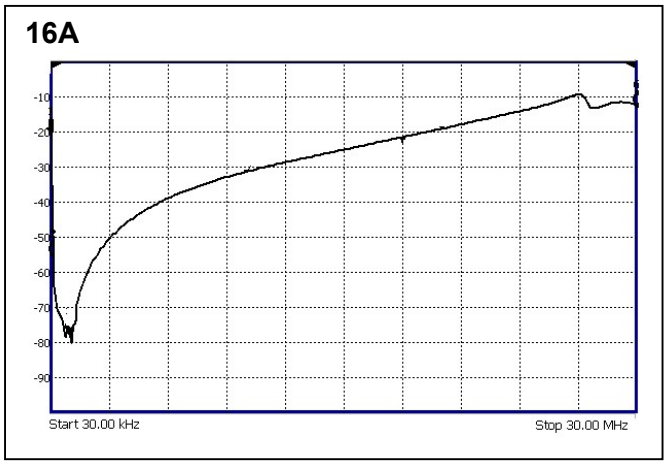
	41	10	16	25	50
Wire Section (mm^2)	$4mm^2$	$10\ mm^2$	$16\ mm^2$	$25\ mm^2$	$50\ mm^2$
Wire Section (AWG)	12AWG	8 AWG	6 AWG	4 AWG	1/0 AWG
Wire Stripping	Max 10mm	max 13.5 mm	max 17 mm	max 17 mm	max 20 mm
Max Recommended Torque	0.5 Nm / 4.5 in.lbs	1.2 Nm / 10.8 in.lbs	2÷2.2 Nm / 18÷19.8 in.lbs	2 Nm /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

Insertion Loss (Common Mode)

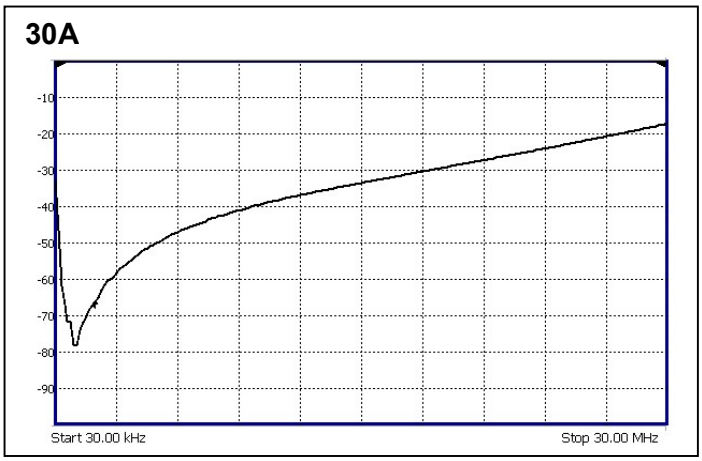
7A



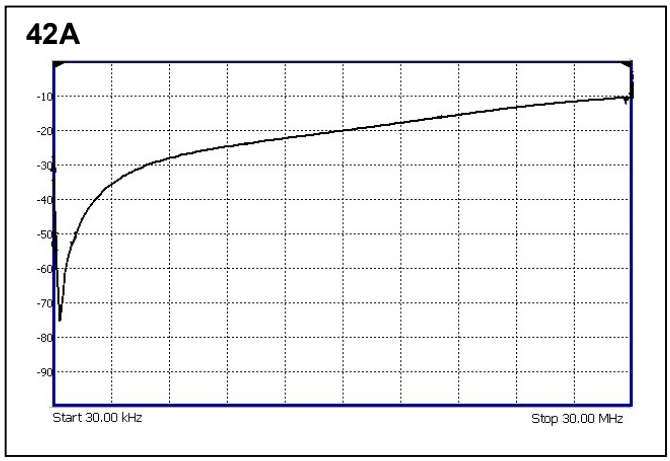
16A



30A



42A



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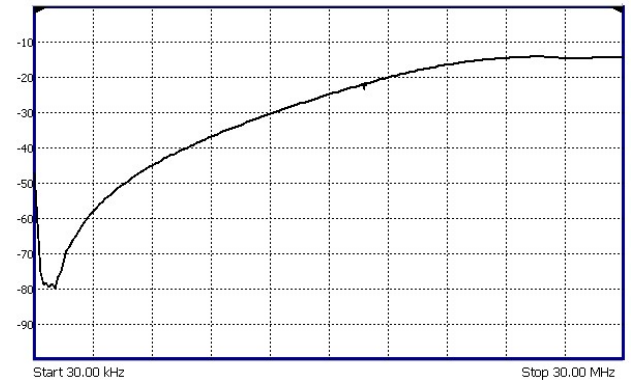

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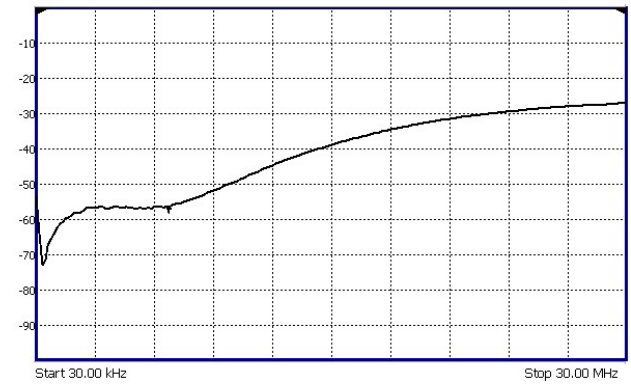
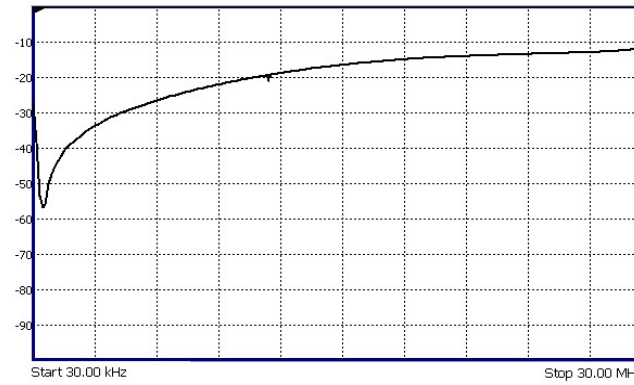
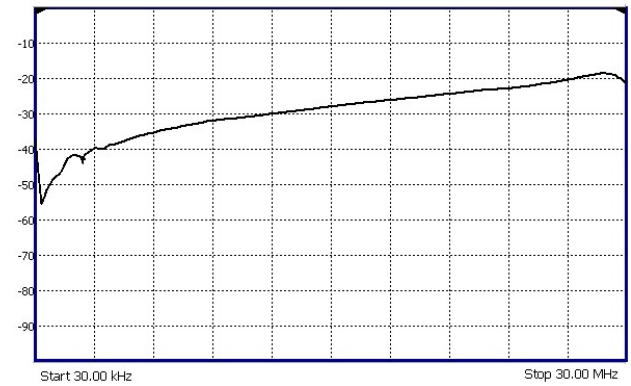


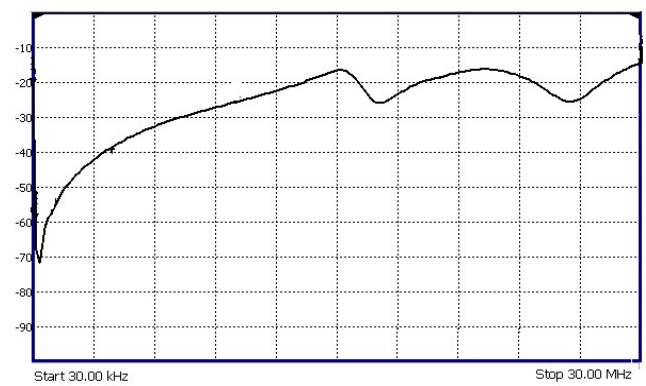
100A



125A



150A



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